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FIGURE 1934

GGCCGGAGCCGTGCGAGTTCTCTACCCTGCTTCGCGAGCGGGCGAGAGAACGCGAGTCCCAGGATCCCCGGCACC
CAGTTCTCTTCCACTGCATGATTTTTCCTTTGACCGGGTATTCCCACCAGGAAGTGGACAGGATGAAGTGTGTTGA
AGAGATTGCCATGCTTGTCAGTCAGCCCTGGATGGCTATCCAGTATGCATCTTTGCCTATGGCCAGACAGGCAG
TGGCAAGACCTTCACAATGGAGGGTGGGCCTGGGGGAGACCCCCAGTTGGAGGGGCTGATCCCTCGGGCCCTGCG
GCACCTCTTCTCTGTGGCTCAGGAGCTGAGTGGTCAGGGCTGGACCTACAGCTTTGTAGCAAGCTACGTAGAGAT
CTACAATGAGACTGTCCGGGACCTGCTGGCCACTGGAACCCGGAAGGGTCAAGGGGGCGAGTGTGAGATTGCGCG
TGCAGGGCCAGGGAGTGAGGAGCTCACTGTCACCAATGCTCGATATGTCCCTGTCTCCTGTGAGAAAGAAGTGGA
CGCCCTGCTTCATCTGGCCCGCCAGAATCGGGCTGTGGCCCGCACAGCCCAGAATGAACGGTCATCACGCAGCCA
CAGTGTATTCCAGCTACAGATTTCTGGGGAGCACTCCAGCCGAGGCCTGCAGTGTGGGGCCCCCCTCAGTCTTGT
GGACCTGGCCGGGAGTGAGCGACTTGACCCCGGCTTAGCCCTCGGCC

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FIGURE 1935

MDPQRSPLLEVKGNIELKRPLIKAPSQLPLSGSRLKRRPDQMEDGLEPEKKRTRGLGATTKITTSHPRVPSLTTV
PQTQGQTAAQKVSKKTGPRCSTAIATGLKNQKPVPAVPVQKSGTSGVPPMAGGKKPSKRPAWDLKGQLCDLNAEL
KRCRERTQTLDQENQQQLQDQLRDAQQQVKALGTERTTLEGHAKVQAQAEQQQQELKNLRACVLELEERLSTQEG
LVQELQKKQVELQEERRGLMSQLEEKERRLOTSEAAALSSSQAEVASLRQETVAQAALLTEREERLHGLEMERRRL
HNQLQELKGNIRVFCRVREVLPGIPTPPPGLLLFPSPGPGPSDPPTRLSLSRSDERRGTLSGAPAPPTRHDFSFD
RVFPPGSGQDEVFEEIAMLVQSALDGYPVCIFAYGQTGSGKTFTEGGPGGDPQLEGLIPRALRHLFSVAQELSG
QGWTYSFVASIVEIYNETVRDLLATGTRKGQGECEIRRAGPGSEELTVTNARYVPVSCEKEVDALLHLARQNRA
VARTAQNERSRSRSHSVFQLQISGEHSSRGLQCGAPLSLVDLAGSERLDPGLALGPGERERLRETQAINSSLSTLG
LVIMALSNKESHVPYRNSKLTLYLLQNSLGGSAKMLMFVNISPLEENVSESLNSLRFASKVNQCIVIGTAQANRK

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FIGURE 1936

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCATCCTGAATCTGGGTTTCATCCGACACC
AGCTGCCTCCACCATGCCACCGAAGTTCGACCCCAACGAGATCAAGGTCGTATACCTGAGGTGCACCAGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCCTTCTGCCTCTGCCCCGATCATCAAAGCCCTCAAGAAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAATGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCGATCCTT
AGCCAGAGAACTCTCTGGAACCATTAAGAGATTCCGGGGACTGCCCAGTCTATGGGCTGTAATGTTGATGGCCA
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAGGATCATTTGACAACCTGGT

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FIGURE 1937

GTTCGGCGGGGGCGGCCGAGGGGGAAGAGTGTGTGTCTGCGGGAGAAAGAGGAGAATCACCCAAGCGGCCTCAG
AAGTCCCAGGGAGTGGAGGCCCTGCCATGGAGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCCTGC
TCAACGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCGTGGTTATTTTTTTTACATGGACTTGGAGACA
CAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTTCGGCTCCCTCACGTCAAGTACATCTGTTCCCATGAGCCTA
GGATCCCTGTGACCCCTCAACATGAAGATGGTGTATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGCCC
CAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGA
TCCCTGCCAATCAAATCATCCTGGGAGGCTTTTACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCC
CCCACCTCTGGCTGGCATCCTGGCTTTGAGCTGTGCGCCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATG
GCAGTGCCAAGGACCTGGCCATCCTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCC
TGATGGCTGAGAAGCTCCGGTCTGTTGTACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTTCATGCACA
GCTCCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTG
GCCCCAGTGCACTACCCAGCTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCTGA
GCCCCCTGTCCCCACCCCTTCCCTGACCTGTCTTTTTCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGC
CTTCCCTTCCCTGGCCTCAGCCACCTGGCTCTGTCTGCAGTAGGGGCAGGCTGCTTTCTTATCCCATTTCCCTGGAG
GCGGGCCCCCCTGGCAGCAGTATTGGAGGGGCTACAGGCAGCTGGAGAAAGAGGCCAGCCACTGACCCACTCAC
TCAGGACCTCACTCACTAGCCCCACTTTGGGCCCCCTCCTGTAACTTAGGGTTTGGCCCATGGGGCCCTCCCAG
GCCCCCTGCCCCAACTGATTCTGCCAGATAATCTTGTGTCTCCTGCCTCCACTCAGCTGCTTCTCAGTCATGAAC
GTGGCCATGGCCCCGGGGGTCCCCCTGCTGCTGTGGGCTCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGG
AGCCTTTTGGAGGGGGGCTTCCCTCAGCTGTTTTCCACACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCCTCC
TTCCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGGTTTCCCTCAGGTTCTCCCCCAGCTGTCTCACCCCACTTTGT
CCCCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTGTGTCTTGTCTTCTGTCTCCATGTGGTTTTTGGGTGTT
TTTCTTCTTGTGTCTTGGATTCTGATAAAATTAAAGAAATTGCTTCCTC

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FIGURE 1938

GTGTGTCTGCGGGAGAAAGAGGAGAATCACCCAAGCGGCCTCAGAAGTCCCAGGGAGTGGAGGCCCTGCCATGG
AGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCTGCTCAACGATGCTGCCACCGTGTCTGGAGCTGA
GCGGGAAACGGCCGTGGTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCAC
CATTCGGCTCCCTCACGTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGT
GATGCCCTCCTGTCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAG
GCTTTTCACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCCCCCACCCTCTGGCTGGCATCCTGGCTT
TGAGCTGCTGGCCGCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGGCCATCCTCC
AGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCCTGATGGCTGAGAAGCTCCGGTCTGTTG
TCACACCTGCCAGGGTCCAGTTCAGACATACTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGATGGCAGCTG
TGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCCAGCTCATGG
GGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCTGTCCCCACCCTTCCTGACCTG
TCCTTTTCCCACAGGCCTCTAGGGGCAGGTG

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FIGURE 1939

GAAAGAGGAGAATCACCCAAGCGGCCTCAGAAGTCCCAGGGAGTGGAGGCCCTGCCATGGAGCCGTGTGGTGTA
TGTGTGGTAACACCATGTCTGTGCCCCGTGCTCAACGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAACGGCCG
TGGTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTTCGGCTCCCTC
ACGTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGTGATGCCCTCCTGGT
TTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGG
CCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAGGCTTTTCACAGGGCCGGG
CCCTGTCCCTCTACATGGCCCTCACCTGCCCCCACCCTCTGGCTGGCATCCTGGCTTTGAGCTGCTGGCCGCCTC
TGCACCGGGCCTTCCCCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGATG
GCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCAG
CTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCTGTCCCCACCCTTCC
TGACCTGTCTTTTCCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGCCTTCCTTCCTGGCCTCAGCC
ACCTGGCTCTGTCTGCAGTAGGGGCAGGCTG

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FIGURE 1940

GTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTCCGGCTCCCTCAC
GTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGTGATGCCCTCCTGGTTT
GACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCC
TTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAGGCTTTTCACAGGGCCGGGCC
CTGTCCCTCTACATGGCCCTCACCTGCCCCCAGCTGTCTCACCCCCACTTTGTCCCCACTCTAGAGCAGGGAGGC
AGTGGGGGAGGAGTTGTGTCTTGTCTTCTGTCTCCATGTGGTTTTTTGGGTGTTTTTCTTCTTGTGTCCTGGATT
TGATAAAATTAAAGAAATTGCTTCCTC

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FIGURE 1941

ACATGAAGATGGTGATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCA
TCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCA
TCCTGGGAGGCTTTTACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCCCCCACCCTCTGGCTGGCA
TCCTGGCTTTGAGCTGCTGGCCGCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGG
CCATCCTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCCTGATGGCTGAGAAGCTCC
GGTCTGTTGTCACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGA
TGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCACTACCCC
AGCTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCGTGCCCCACCCTT
CCTGACCTGTCCTTTTCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGCCTTCCTTCCTGGCCTCAG
CCACCTGCCTCCACTCAGCTGCTTCTCAGTCATGAACGTGGCCATGGCCCCGGGGGTCCCCTTGCTGCTGTGGGC
TCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGGAGCCTTTTGAGGGGGCCTTCCCTCAGCTGTTTCCCCA
CACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCTCCTTCCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGG
TTCAGGTCTCCCCCAGCTGTCTCACCCCCACTTTGTCCCCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTG
TGCTGTGCTTCTGTCTCCATGTGGTTTTTGGGTGTTTTTCTTCTTGTGTCCTGGATTCTGATAAAATTAAAGAA
ATTGCTTCCTC

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FIGURE 1942

CGGCACGAGGCGGTGGGAGTGGGAAGGAAGGCGGAGGGAACCATGCGAGGTTCTGAGAATTGCGGCGAGGGTTCG
CTCGAGAGACGGTTTCTGAGCAGGAATTCTGAAATCCCCACCACTTCCTCCCTCCGGGGGATTGATCCCCCTATG

GCCACCGCTAACAGCATCATCGTGCTGGATGATGATGACGAAGATGAAGCAGCTGCTCAGCCAGGGCCCTCCAC
CCACTCCCCAATGCGGCCTCACCTGGGGCAGAAGCCCCCTAGCTCCTCTGAGCCTCATGGGGCCAGAGGAAGCAGT
AGTTCGGGCGGCAAGAAATGCTACAAGCTGGAGAATGAGAAGCTGTTTCAAGAGTTTCTTGAACTTTGTAAAGATG
CAGACAGCAGACCACCCTGAGGTGGTCCCATTTCCTCTATAACCGGCAGCAACGTGCCCACTCTCTGTTTTTGGCC
TCGGCGGAGTTCTGCAACATCCTCTCTAGGGTCCTGTCTCGGGCCCGGAGCCGGCCAGCCAAGCTCTATGTCTAC
ATCAATGAGCTCTGCACTGTTCTCAAGGCCCCACTCAGCCAAAAGAAAGCTGAAC TTGGCCCTGCCGCCACCACC
TCCAATGAGCCCTCTGGGAATAACCCTCCACACACCTCTCCTTGGACCCACAAATGCTGAAAACACTGCCTCT
CAGTCTCCAAGGACCCGTGGTTCCCGGCGGCAGATCCAGCGTTTGGAGCAGCTGCTGGCGCTCTATGTGGCAGAG
ATCCGGCGGCTGCAGGAAAAGGAGTTGGATCTCTCAGAATTGGATGACCCAGACTCCGCATACCTGCAGGAGGCA
CGGTTGAAGCGTAAGCTGATCCGCTCTTTGGGCGACTATGTGAGCTGAAAGACTGCTCTTCACTGACCGGCCGT
GTCATAGAGCAGCGCATCCCCCTACCGTGGCACCCGCTACCCAGAGGTTAACAGGCGCATTGAGCGGCTCATCAAC
AAGCCAGGGCCTGATACCTTCCCTGACTATGGGGATGTGCTTCGGGCTGTAGAGAAGGCAGCTGCCCGACACAGC
CTTGGCCTCCCCCGACAGCAGCTCCAGCTCATGGCTCAGGATGCCTTCCGAGATGTGGGCATCAGGTTACAGGAG
CGACGTCACCTCGATCTCATCTACAACCTTTGGCTGCCACCTCACAGATGACTATAGGCCAGGCGTTGACCCTGCA
CTATCAGATCCTGTGTTGGCCCGGCGCCTTCGGGAAAACCGGAGTTTGGCCATGAGTCGGCTGGATGAGGTCATC
TCCAAATACGCAATGTTGCAAGACAAAAGTGAGGAGGGCGAGAGAAAAAGAGAAGAGCTCGGCTCCAAGGCACC
TCTTCCCACTCTGCAGACACCCCCGAAGCCTCCTTGGATTCTGGTGAGGGCCCTAGTGGAATGGCATCCCAGGGG
TGCCCTTCTGCCTCCAGAGCTGAGACAGATGACGAAGACGATGAGGAGAGTGATGAGGAAGAGGAGGAGGAGGAG
GAAGAAGAAGAGGAGGAGGAGGCCACAGATTCTGAAGAGGAGGAGGATCTGGAACAGATGCAGGAGGGTCAGGAGGAT
GATGAAGAGGAGGAGCAGAGAGGAAGAAGCAGCAGCAGGTAAGATGGAGACAAGAGCCCCATGTCTCTACTACAG
ATCTCCAATGAAAAGAACCTGGAACCTGGCAAAACAGATCAGCAGATCTTCAGGGGAGCAGCAAAACAAAGGACGC
ATAGTGTCACCATCGTTACTGTGAGAAGAACCCTGGCCCCCTCCAGCATAGATGCTGAAAGCAATGGAGAACAG
CCTGAGGAGCTGACCCTGGAGGAAGAAAGCCCTGTGTCTCAGCTCTTTGAGCTAGAGATTGAAGCTTTGCCCCCTG
GATACCCCTTCTCTGTGGAGACGGACATTTCTCTTCCAGGAAGCAATCAGAGGAGCCCTTACCACCTGTCTTA
GAGAATGGAGCAGGCATGGTCTCTTCTACTTCTTCAATGGAGGCGTCTCTCCTCACAACCTGGGGAGATTCTGGT
CCCCCTGCAAAAAATCTCGGAAGGAGAAGAAGCAACAGGATCAGGGCCATTAGGAAACAGCTATGTGGAAAGG
CAAAGGTCAGTGCATGAGAAGAATGGGAAAAAGATATGTACCCTGCCAGCCACCTTCCCCCTTGGCTTCTCTG
GCCCCAGTTGCTGATTCTTCCACGAGGGTGGACTCTCCAGCCATGGCCTGGTGACCAGCTCCCTCTGCATCCCT
TCTCCAGCCCGGCTGTCCAAACCCCCCATTCACAGCCTCCTCGGCCTGGTACTTGCAAGACAAGTGTTGGCCACA
CAATGCGATCCAGAAGAGATCATCGTGCTCTCAGACTCTGATTAAGTGCCTCCCCTTCTCCCTGCCTCCAGAATG
TCTTGGGATAACATTTGGAGGAAGGTGGGAAGCAGATGACTGAGGAAGGGATGGACTAAGCTAATCCCCCTTTTG
TGGTGTCTTTT

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FIGURE 1943

MATANSIIIVLDDDDDEDEAAAQPGPSHPLPNAASPGAEAPSSSEPHGARGSSSSSGGKKCYKLENEKLFEEFLELCK
MQTADHPEVVPFLYNRQORAHSLFLASAEFCNILSRVLSRARSRPALYVYINELCTVLKAHSAKKKLNLA PAAT
TSNEPSGNNPPTHLSLDPTNAENTASQSPRTRGSRRQIQRLQQLALYVAEIRRLQEKELDLSLDDPD SAYLQE
ARLKRKLIRLFGRLCELKDCSSLTGRVIEQRIPYRGTRYPEVNRRIERLINKPGPDTFPDYGDVLR AVEKAAARH
SLGLPRQQLQLMAQDAFRDVGIRLQERRHLDLIYNFGCHLTDDYRPGVDPALSDPVLARRLRNRS LAMSRLEDEV
ISKYAMLQDKSEEGERKKRRARLQGTSSHSADTPEASLDSGEGPSGMASQGCPSASRAETDDEDEESDEEEEEE
EEEEEEAATDSEEEEDLEQMQEGQEDDEEEDEEEEAAGKDGDKSPMSSLQISNEKNLEPGKQISRSSGEQQNKG
RIVSPSLLSEEPLAPSSIDAESNGEQPEELTLEESPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTV
LENGAGMVSSTSFNGGVSPHNWGDGSGFPCKKSRKEKKQTGSGPLGNSYVERQRSVHEKNGKKICTLPSPPSPLAS
LAPVADSSTRVDSPSHGLVTSSLCIPSPARLSQTPHSQPPRPGTCKTSVATQCDPEEIIIVLSDSD

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FIGURE 1944

GGCACGAGGGCTGAGAAGAGTTTTGCACGTGGATCGCCGTTTCGGGTGGGCGAGATGGAGACAGCCCCAAGCCGG
GCAAGGATGTCCCGCCCAAGAAAGACAACTTCAGACCAAGAGAAAGAAACCGCGGCGATACTGGGAGGAAGAGA
CCGTTCCGACCACAGCCGGAGCCTCTCCAGGGCCTCCTCGTAACAAGAAGAATCGGGAGCTCCGTCTCAGAGAC
CAAAAAATGCTTACATCTTAAAGAAGTCTCGGATCTCTAAGAAGCCTCAGGTCCCCGAAGAAACCCCGAGAATGGA
AGAACCCGGAGTCCCAGCGCGGCTTGTCCGGGGCCCAAGATCCATTCCCAGGCCCCGCCCCGCTCCCTGTGGAAG
TGGTCCAGAAGTTCTGTGCGATTGACAAATCCCGAAAGCTACCACATTCTAAAGCCAAAACCTCGAAGCCGACTTG
AGGTGGCTGAAGCTGAGGAAGAGGAAACAAGTATCAAAGCTGCTCGTTCTGAGCTGCTGCTTGTGTAAGAACCTG
GGTTTCTGGAAGGGGAGGATGGGGAAGACACAGCAAAGATATGCCAGGCTGACATTGTGGAGGCTGTGGACATTG
CAAGTGCAGCCAAGCACTTTGACTTGAATCTGCGGCAGTTTGGACCTACAGACTAACTACTCTCGAACTGGAA
GACACCTGGCTTTTGGAGGGCGCCGAGGTCATGTGGCTGCCCTTGATTGGGTAACAAAGAAGCTTATGTGCGAGA
TCAACGTCATGGAGGCGGTGCGGGACATCCGGTTTCTCCATTCTGAGGCACTGCTTGTGTTGCTCAGAACCGCT
GGCTCCACATCTATGACAATCAGGGCATTGAGCTCCACTGTATCCGCCGCTGTGACCGAGTAACACGGCTTGAGT
TCCTGCCCTTCCACTTCCCTCCTGGCTACAGCTTCAGAAACAGGGTTTCTAACCTACCTGGATGTGTGAGTGGGA
AGATTGTGGCAGCTCTGAATGCTCGAGCTGGGCGGCTCGATGTTATGAGTCAGAACCCTTACAATGCCGTCATCC
ATCTCGGACACAGCAATGGTACTGTGTCTTTATGGAGTCCAGCTATGAAGGAGCCACTGGCAAAGATTCTCTGTC
ATCGTGGTGGGGTCCGGGCTGTGGCAGTAGATTCTACAGGCACGTACATGGCCACCTCTGGCCTAGACCACCAGC
TGAAGATCTTTGACTTGGCAGGGACGTACCAGCCTCTGAGCACTCGGACCCTGCCCCATGGAGCAGGGCACCTGG
CCTTCTCCCAGAGGGGACTGCTGGTGGCGGGAATGGGTGACGTTGTCAACATCTGGGCAGGGCAGGGCAAGGCCA
GCCCCACCTCCCTTGAACAGCCCTACCTCACCCACCGGCTCTCAGGCCCTGTGCATGGCCTTCAGTTCTGCCCCT
TTGAAGATGTGCTGGGGGTGGGGCACACTGGGGGCATCACCAGCATGCTGGTCCCTGGGGCCGGTGAGCCCACT
TCGATGGCCTGGAGAGTAATCCATACAGAAGCCGGAAGCAGCGCCAGGAGTGGGAGGTGAAGGCCCTGCTAGAGA
AGGTACCTGCAGAGCTTATTTGTCTGGACCCACGAGCCCTGGCCGAGGTGGATGTCATCTCCCTGGAGCAGGGAA
AGAAGGAGCAGATAGAGAGGCTGGGCTATGACCCGCGAGGCTAAGGCTCCCTTCCAGCCAAAGCCAAAGCAGAAGG
GCCGCAGCTCCACGGCAAGCCTGGTGAAGAGGAAGAGGAAGGTCATGGATGAGGAACACAGGGACAAGGTCCGGC
AGAGCCTTCAGCAGCAGCATCATAAGGAGGCGAAGGCCAAGCCCACGGGGGCCCGGCCATCTGCCCTGGACAGAT
TTGTGCGCTGAGGCCAGACTCCAGGGTTGCCTGGGAACAGTCTCTCCCCAAGATCACCTGTAGGGAAATGAGTGT
CCCTGGAACAAGGAGGTGGGGCAGTGTGGCCCCCTTCCCCAAGTGGGGGTGGACAGCTGTCTCCTGGGGTGGGTT
GGTATTAAAGAGGAAAGCGATTTTTTGGAAAAA

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FIGURE 1945

METAPKPGKDVPKKDKLQTKRKKPRRYWEEETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRI SKKPQV
PKKPREWKNPESQRGLSGAQDPFPGPAPVPVEVVQKFCRIDKSRKLP HSKAKTRSRLEVAEAE EEEETS IKAARSE
LLLAEEP GFLEGEDGEDTAKICQADIVEAVD IASAAKHFDLNL RQFGPYRLNYSRTGRHLAFGGRRGHVAALDWV
TKKLMCEINVMEAVRDIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFLLATASETGFLT
YLDVSVGKIVAALNARAGRLDVMSQNPYNAVIHLGHSNGTVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGT YMA
TSGLDHQLKIFDLRGTYQPLSTRTLPHGAGHLAFSQRGLLVAGMGDVVNIWAGQGKASPPSLEQPYLTHRLSGPV
HGLQFCPFEDVLGVGHTGGITSMLVPGAGEPNFDGLESNPYRSRKQRQEW EVKALLEKVP AELICLDPRALAEVD
VISLEQGKKEQIERLGYDPQAKAPFQPKPKQKGRSSTASLVKRKRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGA
RPSALDRFVR

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FIGURE 1946

CTCTCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCAGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAG
CATATTTTGGGAGTACTCAACACCAACATCGATGGGCGGCGGAAAATAGCCTTTGCCATCACTGCCATTAAAGGT
GTGGGCGGAAGATATGCTCATGTGGTGTGAGGAAAGCAGACATTGACCTCACCAGAGGGCGGGAGAACTCACT
GAGGATGAGGTGGAACGTGTGATCACCATTATGCAGAATCCAGCCAGTACAAGATCCCAGACTGGTTCTTGAAC
AGACAGAAGGATGTAAAGGATGGAAAATACAGCCAGGTCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGAC
CTGGAGCGACTGAAGAAGATTGGGGCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCAC
ACCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAATAAGTCTGTAGGCCTTGTCTGTTA
ATAAATAGTTTATATACAAAAAA

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FIGURE 1947

MSLVIPEKFQHILRVLNTNIDGRRKIAFAITAIKGVGRRYAHVVLRKADIDLTKRAGELTEDEVERVITIMQNPR
QYKIPDWFLNRQKDVKGKYSQVLANGLDNKLREDLERLKKIRAHRLRHFWGLRVRGQHTKTTGRRGRTVGVS
KK

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FIGURE 1948

GGAGAGGATCCCGGAGCCGGTGAGAATTCTCTGTTTTTCTCTACCATCCTTTCCAGGCCTTTTCCTCACCTAAT
GAGTCGTAGAGACGAGGGCCCAGAGAGTCTGTAAAGTGGCTGGTGAAAGATTAGTGTCCCAGGGCCCTACATCCG
GGAGGTGGTTCGGGATAAAGAGAACTAGTCTTGGGAACAATGTAGGTGGGAACCTAAGGGAATGGGAGAGCGGCC
CATAGAGGTGGACGGAGGGCGCGATTGGAGTAAAGCGGACCCCTGTGTAGGTATAGAGTTGAGTCAAGTGGAGTCA
CTGCCTCTGTCCCTCTGGTCAGCGTGATGGCCAGAGGCCTGGGGGGCCCCCCTGGGTGGCCGTGGGACTGCTGA
CCTGGGCGACCTTGGGGCTTCTGGTGGCTGGACTCGGGGGTTCATGACGACCTGCACGACGATCTGCAAGAGGACT
TCCATGGCCACAGCCACAGGCACTCACATGAAGATTTCCACCATGGCCACAGCCATGCCATGGCCATGGCCACA
CTCACGAGAGCATCTGGCATGGACATACCCACGATCACGACCATGGACATTACATGAGGATTTACACCATGGCC
ATAGCCATGGCTACTCCCATGAGAGCCTCTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCT
ATGGGGAGTCTGGGGCTCCAGGCATCAAGCAGGACCTGGATGCTGTCACTCTCTGGGCTTATGCACTGGGGGCCA
CAGTGTGATCTCAGCAGCTCCATTTTTTGTCTCTTCTTATCCCCGTGGAGTCGAACTCTCCCCGGCATCGCT
CTCTACTTCAGATCTTGCTCAGTTTTGCTTCCGGTGGGCTCCTGGGAGATGCTTTCTGACCTCATTCTCATG
CTCTTGAACCTCATTCTCACCACACTCTGGAGCAACCCGGACATGGACACTCCACAGTGGCCAGGGCCCCATT
TGTCTGTGGGACTGTGGTTCTCAGTGAATTGTTGCCTTTCTTGTCTGGAGAAATTTGTGAGACATGTGAAAG
GAGGACATGGTCACAGTCATGGACATGGACACGCTCACAGTCATACACGTGGAAGTCATGGACATGGAAGACAAG
AGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAGAAGAAAAGGAAACAAGAGGGGTTTCAAGAGGCGAGGAG
GGAGCACAGTACCCAAAGATGGGCCAGTGAGACCTCAGAACGCTGAAGAAGAAAAAGAGGCTTAGACCTGCGTG
TGTCGGGGTACCTGAATCTGGCTGCTGACTTGGCACACAACCTTCACTGATGGTCTGGCCATTGGGGCTTCCTTTC
GAGGGGGCCGGGGACTAGGGATCCTGACCACAATGACTGTCCTGCTACATGAAGTGCCCCACGAGGTTCGAGACT
TTGCCATCTTGGTCCAGTCTGGCTGCAGCAAAAAGCAGGCGATGCGTCTGCAACTACTGACAGCAGTAGGGGCAC
TGGCAGGCACAGCCTTGCCCTTCTCACTGAAGGAGGAGCAGTGGGCAGTGAAATTGCAGGTGGTGCAGGTCTCTG
GCTGGGTCTGCCATTTACTGCAGGTGGCTTTATCTACGTAGCAACAGTGTCTGTGTTGCCCCAGCTGCTGAGGG
AGGCATCACCATTGCAATCACTTCTGGAGGTGCTGGGGCTGCTGGGGGGAGTTATCATGATGGTGTGATTGCC
ACCTTGAGTGAGGGGTGGATAAACTACCCCTGCCCCAAACCTCTACCCCTAACTCCAGGTTCAGGGGTGCGTAGAG
GTTGGGGGCCCTGGCCAGGGACATCTGCCAAAGGAAGGAAGTGTAGCCTGGGAGAATGGTTACTTTGGCATTAGG
GCCTTCAAGGGCTGGCAGTCTTACAGAGGCTGGAGCGGTGAGAATGAGAGGCCAGAGGGACCATAGTGTGGGCA
CTGTCTGACCATGTTGCATTGGAAGGCTAAATGGGGCCATGAAGAAGGCTGGAAGGGACAGGGGGTGATGGCAG
CCTACCTGGTGTCCCTACCCACCTGTTCTCGGAGAACCAAGTTGCTACACAGGAAGTCTCCAAGGTCCAGTT
TCCTTTCTCCACAGTTGGTGGAGGCTTCAGGGAAGACCAGAGTCTTGACAGAGAGGGTAACAGGAGGAGTCG
GGGATAAACATCAAACATCAATCGTGTGTCCTGATTTGGGAGTGATTGGGGGGATGGGGTGGGAGAGGGTTAGTT
GGTATTCTCATGGCCTGATTTTTTTTTGTTTCTATTCTTTTATATCACTGTGTTTGAATCGAGGGGGAGGGGTGG
TAACCGGAAATAAAGACCTCCGATCTTCCGCCCC

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FIGURE 1949

GCTCACAGTCATCAATTATAGACCCCAACAACATGCGCCCTGAAGACAGAATGTTCCATATCAGAGCTGTGATCTT
GAGAGCCCTCTCCTTGGCTTTCCTGCTGAGTCTCCGAGGAGCTGGGGCCATCAAGGCGGACCATGTGTCAACTTA
TGCCGCGTTTGTACAGACGCATAGACCAACAGGGGAGTTTATGTTTGAATTTGATGAAGATGAGATGTTCTATGT
GGATCTGGACAAGAAGGAGACCGTCTGGCATCTGGAGGAGTTTGGCCAAGCCTTTTCCTTTGAGGCTCAGGGCGG
GCTGGCTAACATTGCTATATTGAACAACAACCTTGAATACCTTGATCCAGCGTTCCAACCACACTCAGGCCACCAA
CGATCCCCCTGAGGTGACCGTGTTTCCCAAGGAGCCTGTGGAGCTGGGCCAGCCCAACACCCTCATCTGCCACAT
TGACAAGTTCTTCCCACCAGTGCTCAACGTCACGTGGCTGTGCAACGGGGAGCTGGTCACTGAGGGTGTCGCTGA
GAGCCTCTTCCTGCCCAGAACAGATTACAGCTTCCACAAGTTCCATTACCTGACCTTTGTGCCCTCAGCAGAGGA
CTTCTATGACTGCAGGGTGGAGCACTGGGGCTTGGACCAGCCGCTCCTCAAGCACTGGGAGGCCCAAGAGCCAAT
CCAGATGCCTGAGACAACGGGAGACTGTGCTCTGTGCCCTGGGCCTGGTGCTGGGCCTAGTCGGCATCATCGTGGG
CACCGTCCCTCATATAAAGTCTCTGCGTTCTGGCCATGACCCCCGGGGCCAGGGGACCCTGTGAAAATACTGTAAA
GGTGACAAAATATCTGAACAGAAGAGGACTTAGGAGAGATCTGAACTCCAGCTGCCCTACAAACTCCATCTCAGC
TTTTCTTCTCACTTCATGTGAAAACACTCTCCAGTGGCTGACTGAATTGCTGACCCCTCAAGCTCTGTCCTTATCC
ATTACCTCAAAGCAGTCATTCCCTTAGTAAAGTTTCCAACAAATAGAAATTAATGACACTTTGGTAGCACTAATAT
GGAGATTATCCTTTTCATTGAGCCTTTTATCCTCTGTTCTCCTTTGAAGAACCCTCACTGTCACCTTCCCGAGAA
TACCCTAAGACCAATAAATACTTCAGTATTTT

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FIGURE 1950

MRPEDRMFHIRAVILRALSLAFLLSLRGAGAIKADHVSTYAAFVQTHRETGEFMFEFDEDEMFYVDLDKKETVWH
LEEFQQAFSFEAQGGLANIAILNNNLNTLIQRSNHTQATNDPPEVTVPKEPVELGQPNTLICHIDKFFPPVLNV
TWLCNGELVTEGVAESLFLPRTDYSFHKFHLYTFVPSAEDFYDCRVEHWGLDQPLLKHWEAQEPIQMPETTETVL
CALGLVLGLVGIIIVGTVLIKSLRSGHDPRAQGTL

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FIGURE 1951A

GGACTGCGGGATAGGAAGCTGGGGATATGGACAAGCAGCAGCGTTATAGCGCTCTGGGTTTCGGGACATAGGCCT
GGGCCATGCGGCCCCCTTGGCCCCCTTGGCGCGACCCCCAGGAACGTTTCGGAAAGCTGGTCTCGTGGCTGGGGGA
AAGGCGGGGGGTGGGGGGGAAGCGGGCACGTGACCCCGGTACGCCAATCTGGGTGCTGCTGACGTACGCGCGCGG
CCCCGATGCTCTCCCCACCCCCCAGCCGTTTCGGGAAGGGAGGGGCTGGGGGCTACGCCCCATCCCCAGCACG
GCTTCGTTTTCTGGGGGGGGTTGACACCCCGGATTACATACCCCGTACCAAGCCGAGGGCAACTTTGGAGGCCC
CCTGGAAGGCTTTAGGATCCAGATTCTTCGCTGCTGCTGCCTTACCGCCGAGAACCACCACCCGCCAGGCGTCTT
GCGGCCACACCCCTGGCGGGTTGAGGCAGGCTACGCCCACGCGACCCCTCCCGTTTCCCTGCTTTGGCCAATGGA
GGAGCTACGAATGGCACGACCTGCTCGAGCTTGGCAGTCTCCAGTTGGGCTGTGCATGGAAGCTTGGGAAGACTT
TGTTGGAAGGGGAGGCGGGGAGAGAGTGTGCTGGAGGCTCTGGGGCGATGGCTTCCGCACCTCTTCCAACCACCCTC
TTTCCCTGGAGTCGGCGGACCACAGCTCAGCCAATTGGCTTGGAGATGTGGCGGGTTGCCACTTCCCTGTGGGTC
TCTGCGGCACTCTTCTGCCTGGTGACTGACACCTTGGAATGAAGTTTATGACGTCATCGTTGCGGCTGGCCAAT
AGAAAAGCTCCCGCGGAGAGGTGTTCTTCCCTTCGACTCAGCTTCTTACCCGCGTGAGCGAGCGCGCGCGC
GCGGAGGGGGTGGGGAAAATCTCAAGCAGGTTGCGCGCATGAGCGGCGAAGCTCCTCCTCCCGCCTATATATA
AAGGGCTGGCGCGGGGCTCGGCGGCGCCATTTCGTGCTGGAGTGGAGCAGCCTCTAGAACGAGCTGGAGGATTCT
GCCTACCGATACAGAGCCTTCGAGTGTCCGGGGCCGCCATTACAATCCACCTCCATCCGCTTGGAAATGGCCTT
CGTCCCGGCCTATGACTGGTCCAGCGGGCAGTACAGACCCCTAGAAGCCCTGGAGCTCCCTTTTTCGGGCC
CCGCCAATCCTCGGAGTCTGTCCACCCCTCTACTCCGCCCTCAAGAGGATTTCAAAGATGGAGGCGGCGGCTC
CCTAAACCACTTTTCGTGTTTCATCCGCTCCATCCGAGATCGAAACGGGACCTCGTCGGCCCCGTAGGGGCCCCGA
CAAGAAGAGGGAATCCCTGCAGACCAACAGCGGGCTATATTGACGACGGTGTCTGAGATCGGGGACCGTCTTTTG
AAGAGTCAGTCCCTCCTTAGTTGCCCGCCTCAGCTGAGGCGCGGCCATTTTCTTGCTGTCCGCGCTCTGCAGAG
CGCGCCAAGCTGCCCGGAGCTCTCCGAGAGGCCCCAAAGAGACTGCTTTCGTGCGGCCAGGCAGGGGGTTTGTCT
GCCTGGAGGCCCAAGAGGAACGGCCTCCCCCACTTAGCGGGTTATGCTGGACCGGGCGGTGAGGGGAACCGAG
GCCACCCGGACTTTCCGCGGCTGAGGGCAGCGCCGTTTCTTGCGGTCAAGATGCTGCAAAACGTGACTCCCCAC
AATAAGCTCCCTGGGGAAGGGAATGCAGGGTTGCTGGGGCTGGGCCCAGAAGCAGCAGCACCAGGGAAAAGGATT
CGAAAACCTCTCTCTTGTATGAGGGCTTTGAGAGCCCCACAATGGCTTCGGTGCCTGCTTTGCAACTTACCCCT
GCCAACCACACCCCCGAGGTGTCCAATCCCAAAAAGCCAGGACGAGTTACCAACCAGCTGCAATACCTACAC
AAGGTAGTGATGAAGGCTCTGTGGAACATCAGTTTCGATGGCCATTCCGGCAGCCTGTGGATGCTGTCAAACCTG
GGTCTACCGGATTATCAGAAAATTATAAAAACAGCCTATGGACATGGGTACTATTAAGAGGAGACTTGAAAACAAT
TATTATTGGGCTGCTTCAGAGTGTATGCAAGATTTTAATACCATGTTACCAACTGTTACATTTACAACAAGCCC
ACTGATGATATTGTCCTAATGGCACAAACGCTGGAAAAGATATTCTACAGAAGGTTGCATCAATGCCACAAGAA
GAACAAGAGCTGGTAGTGACCATCCCTAAGAACAGCCACAAGAAGGGGGCCAAGTTGGCAGCGCTCCAGGGCAGT
GTTACCAGTGCCCATCAGGTGCCTGCCGTCTCTTCTGTGTACACACAGCCCTGTATACTCCTCCACCTGAGATA
CCTACCAGTGTCTTCAACATTCCCCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCTTGCACCTCTGCTGGA
CCCCGCTCCTTGCTGTTACTGCAGCTCCTCCAGCCAGCCCTTGCCAAGAAAAAAGGCGTAAAGCGGAAAGCA
GATACTACCACCCCTACACCTACAGCCATCTTGGCTCCTGGTTCTCCAGCTAGCCCTCCTGGGAGTCTTGAGCCT
AAGGCAGCAGCGCTTCCCCCTATGCGTAGAGAGAGTGGTCGCCCCATCAAGCCCCACGCAAAGACTTGCCTGAC
TCTCAGCAACAACACCAGAGCTCTAAGAAAGGAAAGCTTTCAGAACAGTTAAACATTGCAATGGCATTTTGAAG
GAGTTACTCTCTAAGAAGCATGCTGCCTATGCTTGGCCTTTCTATAAACAGTGGATGCTTCTGCACTTGGCCTG
CATGACTACCATGACATCATTAAAGCAGCCCATGGACCTCAGCACTGTCAAGCGGAAGATGGAGAACCCTGATTAC
CGGGATGCACAGGAGTTTGTGCTGATGTACGGCTTATGTTCTCCAAGTCTATAAGTACAATCCCCAGATCAC
GATGTTGTGGCAATGGCACGAAAGCTACAGGATGTATTTGAGTTCCGTTATGCCAAGATGCCAGATGAACCACTA
GAACCAGGGCCTTTACCACTCTCTACTGCCATGCCCCCTGGCTTGGCCAAATCGTCTTCAAGTCTCTCCAGTGAG
GAAAGTAGCAGTGAGAGCTCCTCTGAGGAAGAGGAGGAGGAAGATGAGGAGGACGAGGAGGAAGAAGAGAGTGAA
AGCTCAGACTCAGAGGAAGAAAGGGCTCATCGCTTAGCAGAACTACAGGAACAGCTTCGGGCAGTACATGAACAA
CTGGCTGCTCTGTCCAGGGTCCAATATCCAAGCCCCAAGAGGAAAAGAGAGAAAAAAGAGAAAAAGAAGAAACGG
AAGGCAGAGAAGCATCGAGGCCGAGCTGGGGCCGATGAAGATGACAAGGGGGCTAGGGCACCCCGCCACCTCAA
CCTAAGAAGTCCAAGAAAGCAAGTGGCAGTGGGGGTGGCAGTGTGCTTTAGGCCCTTCCGGCTTTGGACCTTCT
GGAGGAAGTGGCACCAAGCTCCCCAAAAGGCCACAAAGACAGCCCCACCTGCCCTGCCTACAGGTTATGATTCA

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FIGURE 1951B

GAGGAGGAGGAAGAGAGCAGGCCCATGAGTTACGATGAGAAGCGGCAGCTGAGCCTGGACATCAACAAATTACCT
GGGGAGAAGCTGGGCCGAGTTGTGCATATAATCCAAGCCAGGGAGCCCTCTTTACGTGATTCAAACCCAGAAGAG
ATTGAGATTGATTTTGAAACACTCAAGCCATCCACACTTAGAGAGCTTGAGCGCTATGTCCTTTCCTGCCTACGT
AAGAAACCCCGGAAGCCCTACACCATTAAGAAGCCTGTGGGAAAGACAAAGGAGGAAGTGGCTTTGGAGAAAAAG
CGGAATTAGAAAAGCGGTTACAAGATGTCAGCGGACAGCTCAATTCTACTAAAAAGCCCCCAAGAAAGCGAAT
GAGAAAACAGAGTCATCCTCTGCACAGCAAGTAGCAGTGTACGCCTTAGCGCTTCCAGCTCCAGCTCAGATTCC
AGCTCCTCCTCTTCCTCGTCGTCGTCTTCAGACACCAGTGATTCAGACTCAGGCTAAGGGGTCAGGCCAGATGGG
GCAGGAAGGCTCCGCAGGACCGGACCCCTAGACCACCCGTGCCCCACCTGCCCCCTTCCCCCTTTGCTGTGACACTT
CTTCATCTCACCCCCCCTGCCCCCTCTAGGAGAGCTGGCTCTGCAGTGGGGGAGGGATGCAGGGACATTTACT
GAAGGAGGGACATGGACAAAACAACATTGAATTCCCAGCCCCATTGGGGAGTGATCTCTTGGACACAGAGCCCCC
ATTCAAATGGGGCAGGGCAAGGGTGGGAGTGTGCAAAGCCCTGATCTGGAGTTACCTGAGGCCATAGCTGCCCT
ATTCACTTCTAAGGGCCCTGTTTTGAGATTGTTTGTCTAATTTATTTTAAGCTAGGTAAGGCTGGGGGGAGGGT
GGGGCCGTGGTCCCCTCAGCCTCCATGGGGAGGGAAGAAGGGGGAGCTCTTTTTTTACGTTGATTTTTTTTTTC
TACTCTGTTTTCCCTTTTTCCCTCCGCTCCATTTGGGGCCCTGGGGGTTTCAGTCATCTCCCCATTTGGTCCCCT
GGACTGTCTTTGTTGATTCTAACTTGTAATAAAGAAAATATT

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FIGURE 1952

GGGCAGAAAGGGCÄCGCTCTTGTGGGTGACTACAGGTTAGGAGACCGTTGAACCTGGAGGGGGCCCTAGGATGGAC
CCCGTGGAAAGATTTCAGAGACTGCGCCCTCTCCCTGGCGCCGCCTTCCCCTACACGCGGGGGTATATTCTGTTG
CAGTTGGCCCAGGACCTGTTTCCAAGACTCTGCCCCCTCGCACTTCCGTCCCTCCTGGTTTTGTAAAGTGATGCT
CATAGGAACCCCCACCCGCGTGACACTACTCCAGCTCCTGGCTGACTTCTAGTCTTCTGGTTGAAGCTGCGCC
TTTAGATGACACGACCCTACCCACCCCTGTTTCCAGCGGATGCCCGGGCCTGGAGCCCACAGAATTCTTCCAGTC
CCTGGGTGGGGACGGAGAAAGGAACGTTTCAGATTGAGATGGCCCATGGCACCACCACGCTCGCCTTCAAGTTCCA
GCATGGAGTGATTGCAGCAGTGGATTTCGGGCCTCAGCTGGGTCCCTACATTAGTGCCTTACGGGTGAACAAGGT
GATTGAGATTAACCCCTTACCTGCTTGGCACCATGTCTGGCTGTGCAGCAGACTGTCAGTACTGGGAGCGCCTGCT
GGCCAAGGAATGCAGGCTGTACTATCTGCGAAATGGAGAACGTATTTTCAGTGTCGGCAGCCTCCAAGCTGCTGTC
CAACATGATGTGCCAGTACCGGGGCATGGGCCTCTCTATGGGCAGTATGATCTGTGGCTGGGATAAGAAGGGTCC
TGGACTCTACTACGTGGATGAACATGGGACTCGGCTCTCAGGAAATATGTTCTCCACGGGTAGTGGGAACACTTA
TGCCTACGGTGTCATGGACAGTGGCTATCGGCCTAÄTCTTAGCCCTGAAGAGGCCCTATGACCTTGGCCGCAGGGC
TATTGCTTATGCCACTCACAGAGACAGCTATTCTGGAGGCGTTGTCAATATGTACCACATGAAGGAAGATGGTTG
GGTGAAAGTAGAAAGTACAGATGTCAGTGACCTGCTGCACCAGTACCGGGAAGCCAATCAÄTAAATGGTGGTGGTG
GCAGCTGGGCAGGTCTCCTCTGGGAGGTCTTGGCCGACTCAGGGACCTAAGCCACGTTAAGTCCAAGGAGAAGAA
GAGGCCTAGCCTGAGCCAAAGAGAGAGTACGGGCTCAGCAGCCAGAGGAGCCGCTGAAGTGCATCTTCTGCGTG
TTCTC

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FIGURE 1953

MLIGTTPRDTPSSWLTSSLLVEAAPLDDTTLPTPVSSGCPGLEPTEFFQSLGGDGERNVQIEMAHGTTTLAFK
FQHGVIAAVDSRASAGSYISALRVNKVIEINPYLLGTMSGCAADCQYWERLLAKECRLYYLRNGERISVSAASKL
LSNMMCQYRGMGLSMGSMICGWDKKGPGLYYVDEHGTRLSGNMFSTGSGNTYAYGVMDSGYRPNLSPEEAYDLGR
RAIAYATHRDSYSGGVNMYHMKEDGWVKVESTDVSDLLHQYREANQ

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FIGURE 1954

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTGGACGATTTGCCAGCTT
TGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAATA
TACTCCGATCACCAATGTACCTCCAGAGGTAAGTGTGCTCACGAACAGCCCTGTGGAAGTGAGAGAGCCCAACGT
CCTCATCTGTTTCATAGACAAGTTCACCCCAACAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCCTTCCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGGTGTTCCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTCAGCATTTTCCAGCCCTATAGCCACCCCA
AGAGTGGTTATGCCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGTA
TCTATTTTCCTCTATTTCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACGTGATTTTTCTG
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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FIGURE 1955

GCCGTCTTATCTAAGTCAGAGTCTCCTAAAGAGCCAGAACAACCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTT
GAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAGTGAGGGACACTCCCGGACAGTGTGGTCATGAGAGAT
CCAAACCCAAGCGCTCCAGGGGCTTTGGATTTTTTACATATGCCACTGTGGAGGAGGTGGATGCAGCCGTGAATG
CAAGGCCACACAAGGTGGATGGAAGAGCTGTGGAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAATACCAG
GTGCCCACCTTAACCTGTGAAAAAGATATATGCTGGTGGCATTAAAGAAGACACTGAAGAAATCACCTAAGAAATTA
TTTTGAGTAGTATGGAAAAATTGAAGTGATTGAAAACATGACTGACCGAGGCAGTTGCAAGAAAAGGGGCTTTGC
CTTTGTAACCTTTGATGACCATGACTCCGTGGATAAGACTGTTCATTGAGAAATACCACAGTGTGAATGGCCACAA
CTGTGAAGTTAGGAAAAGCCTGTCAAAGCAAGAGATGGCTAGTGTCCATCCAGCCGAAGAGGTCGAAGTGGTTCT
GGAAACTTTTGGTGGTGGTCATGGAGGTGGTTTTCGGTGGGAATGACAACCTTGATCATGGAGGAACTTCAGTGGT
TGTGGTAGCTTTGGTGGCAGCTGTGGTGGTGGTGGATATGGTGGCAGTGAGGATGGCTATAATGGATTTGGTAAT
GATGGGAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGGA
CCCATGAAGGGAGGAACTTTGGAGGCAGAAGCTGTGGCCTCTATGGTGGTGGAGGCCAATACTTTGCCAAACCA
TGAAACCAAAGTGGCTATTGTGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAGATTTTAATTAGGAAAC
AAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACCTAGCCA
AGCACAGTGGTGGCAGGGCCTAGCTGGTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAA
ACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATT
CCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCATGCTGTTTATTGCTAAATGTAATAGTCTGATCGTGA
CACTGAAAAAA

ATGGACAGCAACGGCTACTTGGGGCCGCCCCCTCCAGGCGGGGGCCGGGGGGGCCTGGGATTGGTGAGTGGGGAGCCT
GGGGGCCCTGGCGAGCCTCCCGGTGGCGGAGACCCCGGTGGGGGTAGCGGGGGGTCCCGGGAGGCCGAGGGAAG
CAAGACATCGGGGACATTCTGCAGCAGATAATGACCATCACCAGCCAGAGCCTGGACGAGGCCCAGGCCAAGAAA
CACGCCCTAAACTGCCACCGAATGAAGCCTGCTCTCTTTAGCGTCTGTGTGAAATCAAGGAGAAAACCTGGCCCT
AGCATTTCGGAGCTCCCAGGAGGAGGAGCCGGTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAG
GGTGTGGCTGGGCCCCGAGAAAGGGGGCGGCTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTG
TCCCTTGACAACTCCATCGAACACTCGGACTATCGCAGCAAACCTTGCCAGATCCGTCACATATACCACTCGGAG
CTGGAGAAGTATGAGCAGGCATGTAATGAGTTCACGACCCATGTATGAACCTGCTGAGGGAGCAGAGCCGCAAC
AGGCCCGTGGCCCCCAAAGAGATGGAACGCATGGTGAGCATCATCCATCGAAAGTTTACGCGCCATCCAGATGCAG
CTGAAGCAGAGCACCTGCGAGGCTGTGATGATCTGCGCTCCCGTTTCTTGATGCCAGACGAAAGCGCCGTAAC
TTCAGCAAACAGGCCACTGAGGTCCTAAATGAGTATTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAG
GCCAAGGAGGAGCTTGCCAAAGAAGTGTGGCATCACCCTGTCTCAGGTCTCCAACCTGGTTTGGCAACAAGAGGATT
CGCTATAAGAAAAACATCGGAAAGTTCCAAGAGGAGGCAAACATCTATGCTGTCAAGACCGCCGTGTCTAGTCACC
CAGGGGGGCCACAGCCGCACCAGCTCCCCGACACCCCTTCTCTGCAAGGCTCTGGCGGCTCTTTCAATCTCTCA
GGATCTGGAGACATGTTTCTGGGGATGCTTGGGCTCAACGGAGATTCTATTCTGCTTCCCAGGTGGAATCACTC
CGACACTCGATGGGGCCAGGGGGCTATGGGGATAACCTCGGGGGAGGCCAGATGTACAGCCACGGGAAATGAGG
GCAAATGGCAGCTGGCAAGAGGCTGTGACCCCTCTTCAGTGACATCCCCAACGGAGGGACCAGGGAGTGTTTAC
TCTGATACCTCCAACCTGATCTTGCCCTCAGGGTCACAGGGGTGGGGGCTCTCACAAGGCGACTTGAAGAGGAGC
CAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGACAGAGAAGGGCCAATGGGGTCATCCCCTCCCT
AACGAGACTCTCTGTGCTGGGGGTGCTAATTACATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGTTGGGGTCTG
TCTCTCCCTTTTTTCCATCTTTTTCTCTCTCGTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTA
TTTCTCAGACCCCTTTTTCTCCTCTGTCTTTCTCTCTCCCTCTCCACACCTCACACACATACTCCCCTTGC
AACTATTCTGTTTCTCTCCTGGGCTCCCCACTTTCCCTTCCCCACCCCACTTGATGCTCTGGAATCTGTGGAG
ACGCCAGCCCTGCCCAATCAGAGATGCCAAAAATGGGGACATGACTTCTGGACAGAGGACATGGGGCCACGCCCC
ATGCATCCCCACCCCGCCCCCTCCGACGGCTTACTTACCTCATACGCAGCTCATCTTAAACCAATAGAATCGCT
CGGTGGACGAGAGTGCTGACTCAGATATCTACCTCGGAGGGAGTTTCTGCTACTTTAGGGAATTATTGACTGGG
CTTTGGGGTTGAACTTTTTTTTTTTTTTAAAGAAAGAAAAAGAAACCCCTGGGATCCATCTGTTTTTTTTTGTGTGT
TGT
TTTTTTTTTTTTTATAAATATGTTGATTTCTTGTCTTTTTTTTTTTTTATTTCTTACTTTCCCATATTAGGGGTGATAG
CAAAGGGGTTCTGGTAAGAGAAAGGGGGACAAACAGAACTGGTAAAGAGGGCCCCCTGGCTCCAGGCCTGTCCAT
CAGGAAGTAAATTTTACAGGGCACCAAGCTTTGCCCCCTAAATCCCTTAGGTGTTCTTTGTTTCATGCAGGCAGG
TTTCTGCCGCATTTGATGTGGAGGCAGTGAAGGGCTTGCCCTGCTGGCCTCTCATCCCCCTTCTTCCACAACCC
TTGGGCAGGGCTGGACTCAGTAATTTTGAAGAAATTGAAGATGCCATCTTCCCCCTGTGAGTGACATGTCTTAAAT
TTTTTAAAAAACTACTATTTGAAAATTGGAGGGGGAAGAAATGGGAAGGGAGTTATTGCCAAATATGTTAAATATG
GGTGGGGGTGCTTGTAATATGTATCTTCTCAATTTCCCCATAAATGAGGTATCTTTTTGTGCACACCAAAATCAAG
GGGTAGGGAGAGGGAGGAGGTTGCAAAAAGCCAGATGTGGGGGAAAAGTAACATCAACACTGTCCCATCCTCAGC
CCTGAACCTAGCTACCATCTGATCCCCCTCAGACATTCTCAGGATTTTACAAGACTGTGAGTGGGGGAACCCCTCC
CATTAAAGATCCGGGCAGGACTGGGGACAGGTTGGAAGTGTGATGGGTGGGGGGGTGGGAGGCATGGGCCGGGGG
CAGTTCTCTCCTCACCTGTAAACTTGTGTAGTTTACAGAAAAAAAACAAAATGCAGTTTTTAAATAAAGAAATTT
CTTTTT

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FIGURE 1957A

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATCAGGCTGCTCTGGGGGCTGATC
TGGGCATCCAGCTTCTTCACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCTCTCTGTGGTTTCACTG
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCCCTG
AGAAACCCATCTCGTAATAATGTCCCCCTGCTCCCCAAAGGTGGACTTCACCCCTTAGCTCAGAAAGAGACTTCGCA
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGTC
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC
TTCTCTCTCGCCGGGGGACCTCTTTTTTGCAGACGGACCAGCCCATTACAAACCCTGGCCAGCGGGTTCGGTAC
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCCGAGCACTGACACCATCACAGTCATGGTGGAGAATCTCACGGC
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA
GAGCCAGGGACCTGGAAGATCTCAGCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG
AAGAAATATGTCTTCCCCAAGTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTTGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTATCCAGGTGGGGAGATGGAGGAGGCAGAGCTCACA
TCCTGGTATTTTGTGTCATCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCCTGGGGCCCCC
TTCTGCTGCAGGCCTTGGTCCGTGAGATGTCAGGCTCCCAGCTTCTGGCATTCTGTCAAAGTTTCTGCCACG
GTGCTTCTCTCTGGGTCTGTTCTGAAGTCCAGGACATTCAGCAAAACACAGACGGGAGCGGCCAAGTCAGCATT
CCAATAATTATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGGCCCCGGGTTTCTGTCTATTGAGCGGCCGGATTCTCGACCTCCT
CGTGTGGGGACACTCTGAACCTGAACCTTGCGAGCCGTGGGCAGTGGGGCCACCTTTTCTCATTACTACTACATG
ATCCTATCCCAGGGCAGATCGTGTTTCATGAATCGAGAGCCCAAGAGGACCCTGACCTCGGTCTCGGTGTTTGTG
GACCATCACCTGGCACCCCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACCTCCCTG
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC
GGGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG
TATGCTGCAGGCAGCAAGTCCCACAAGCCCCCTCAACATGGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC
GGCTGTGGTCTTGGGGGTGGGGACAGTGCCCTTCAGGTGTTCCAGGCAGCGGGCCTGGCCTTTTCTGATGGAGAC
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGGAAAAAGAGAAACGTGAACCTC
CAAAAGGCGATTAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA
CGTCTGCCCATGATGCGTTCTGCGAGCAGCGGGCAGCCCGCTGCGAGCAGCCGGACTGCCGGGAGCCCTTCCTG
TCCTGCTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCTCCAACGAGCCCTG
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGGCAGCTTCTTCCAGAGAACTGGCTC
TGGAGAGTGGAAACAGTGGACCGCTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC
CATGGCCTGAGCCTGTCCAAAACCAAAGGCCTATGTGTGGCCACCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC
CACCTGCACCTCCGCTGCCCATGTCTGTCCGCGCTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTAC
CTGGATAAAAAACCTGACTGTGAGCGTCCACGTGTCCCAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTG
GCCAGCAGGTGCTGGTGCTGCGGGCTCTGCCCGGCTGTTGCCTTCTCTGTGGTGCCACGGCAGCCGCGCT
GTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTCGAATTCCCTGTGGGAGATGCGGTGTCCAAGGTCTGCAGATT
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACTCAACCCCTTGGACCACCGAGGCGGACCTTG
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGACTTTAACAGCTACGTCAAGGTTACAGCCTCA
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGA
GGCTGTGGGGAGCAAACCATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG
TGGAGCACACTGCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG
TTTCGGAAGGCGGATGGTTCTATGCGGCTTGGTTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG
AAGGTCCTGAGTTTGGCCAGGAGCAGGTAGGAGGATCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG
TCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTTGGTG
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGGAAGCCTCCATCTCAAAGGCAAGCTCATTTTGGGGGAGAAAGCA

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FIGURE 1957B

AGTGCTGGGCTCCTGGGTGCCCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC
CTGCGGGGTGTTGCCCCACAACAACCTCATGGCAATGGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC
ACTGGTTCTCAGAGCAATGCCGTGTCGCCCCACCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCA
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC
CAGGCTGCGGGCTGGCTCACCCGTCAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC
CTGGATGCCCTGTCTGCCTACTGGATTGCCTCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC
ACAGGCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTCCGCGGCCTGGAGGAGGAGCTG
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCTGAAGGTCTTTCGTACC
TACAATGTCTTGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGCGAG
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTTGAGGGTTCGGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTG
GTGGAGGAGCAGGAGTCCAGGGTGCCTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG
GCCATCGCGGACGTCACCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGGCCCCACGTCTGCTGTATTTGACTCGGTCCCCACCTCCCGG
GAGTGCCTGGGCTTTGAGGCTGTGCAGGAAGTGCCGTGGGGCTGGTGCAGCCGGCCAGCGCAACCTGTACGAC
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTTG
TCTGCTGAAGCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGTCTGCAGGAC
GAGGATGGCTACAGGATGAAGTTGCCTGCTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCAAGTCTGCACTTCACCAAGGATGTCAAG
GCCGCTGCTAATCAGATGCGCAACTTCCTGGTTTCGAGCCTCCTGCCGCTTCGCTTGGAACCTGGGAAAGAATAT
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCGAGTACCTGCTGGACTCGAATAGCTGG
ATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTGAGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCT
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT
TTTGGCAGCAAAGTGTGCTGTTGGC

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FIGURE 1958

MRLWLGLIWASSFFTLSQLKPRLLLFSPSVVHLGVPLSVGVQLQDVPRGQVVKGSVFLRNPSRNNVPCSPKVDF
LSSERDFALLSLQVPLKDAKSCGLHQLLRGPEVQLVAHSPWLKDSLSRTTNIQGINLLFSSRRGHLFLQTDQPIY
NPGQVRVRYRVFALDQKMRPSTDTITVMVENSHGLRVKKEVYMPSSIFQDDFVIPDISEPGTWKISARFSDGLES
NSSTQFEVKKYVLPNFEVKITPGKPYILTVPGHLDQMQLDIQARYIYGKPVQGVAYVRFGLLDEDGKKTFFRGLE
SQTCLVNGQSHISLSKAEFQDALEKLNMGITDLQGLRLYVAAAIEYPPGEMEEAELTSWYFVSSPFSLDLSKTK
RHLVPGAPFLLQALVREMSGSPASGIPVKVSATVSSPGSVPEVQDIQONTDGSQVSIPIIIPQTISELQLSVSA
GSPHPAIARLTVAAPPSGGPGFLSIERPDSRPPRVGDTLNLNLRAVGSGATFSHYYYMILSRGQIVFMNREPRT
LTSVSVFVDHHLAPSFYFVAFYYHGDHPVANSRLVDVQAGACEGKLELSVDGAKQYRNGESVKLHLETDLSALVA
LGALDTALYAAGSKSHKPLNMKGVEAMNSYDLGCGPGGGDSALQVFAAGLAFSDGDQWTLRKLSCPKEKTT
RKKRNVNFQKAINKLGQYASPTAKRCCQDGVTRLPMMSCEQRAARVQOPDCREPFLSCCQFAESLRKKS RDKG
QAGLQRALEILQEEDLIDEDDIPVRSFFPENWLWRVETVDRFQILTLWLPSLTTWEIHGLSLSKTKGLCVATPV
QLRVFREFHLHLRLPMSVRRFEQLELRPVLYNYLDKNLTVSVHVSPVEGLCLAGGGGLAQQVLVPAGSARPVAFS
VVPTAAAVSLKVVARGSFEFFVGDVAVSKVLQIEKEGAIHREELVYELNPLDHRGRTLEIPGNSDPNMIPDGFN
SYVRVTASDPLDTLGSEGALSPGGVASLLRLPRGCGEQMTMIYLAPTLAASRYLDKTEQWSTLPPETKDHAVDLIQ
KGYMRIQQFRKADGSYAAWLSRGSSTWLTAFLVKVLSLAQEQVGGSPKLETSNWLLSQQQADGSFQDLSPVIH
RSMQGGLVGNDETVALTAFVTIALHHGLAVFQDEGAEPKQKQVEASISKASSFLGEKASAGLLGAHAAAITAYAL
TLTKAPADLRGVAHNNLMAMAQETGDNLYWGSVTGSQSNVSPTPAPRNP SDPMPQAPALWIETTAYALLHLLH
EGKAEMADQAAAWLTRQGSFQGGFRSTQDVTIALDALSAWIASHTTEERGLNVTLSSTGRNGFKSHALQLNNRQ
IRGLEEELQFSLGSKINVKVGGNSKGTCLKVLRNTYNVLDMKNTTCDLQIEVTVKGHVEYTMNEANEDYEDYEDL
PAKDDPDAPLQPVTPPLQLFEGRRNRRRREAPKVVEEQESRVHYTVCIWRNGKVGLSGMAIADVTLTSGFHALRAD
LEKLTSLSDRYVSHFETEGPHVLLYFDSVPTSRECVGFQVQVGLVQPASATLYDYNNPERRCSVFGAPSK
SRLLATLCSAEVCQCAEGKCPRQRALERGLQDEDDGYRMKFACYYPVEYGFQVKVLRSDRAAFRLFETKITQV
LHFTKDVKAAANQMRNFLVRASCRLRLEPGKEYLIMGLDGATYDLEGHPQYLLDSNSWIEEMP SERLCRSTRQRA
ACAQLNDFLQEYGTQGCQV

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FIGURE 1959

AGGGGAAGGGAATGTGACCAGGTCTAGGTCTGGAGTTTCAGCTTGGACACTGAGCCAAGCAGACAAGCAAAGCAA
GCCAGGACACACCATCCTGCCCCAGGCCAGCTTCTCTCCTGCCTTCCAACGCCATGGGGAGCAATCTCAGCCCC
CAACTCTGCCTGATGCCCTTTATCTTGGGCCTCTTGTCTGGAGGTGTGACCACCACTCCATGGTCTTTGGCCAG
CCCCAGGGATCCTGCTCTCTGGAGGGGGTAGAGATCAAAGGCGGCTCCTTCCGACTTCTCCAAGAGGGCCAGGCA
CTGGAGTACGTGTCTCTTCTGGCTTCTACCCGTACCCTGTGCAGACACGTACCTGCAGATCTACGGGGTCTCTGG
AGCACCTTGAAGACTCAAGACCAAAAGACTGTGAGGAAGGCAGAGTGCAGAGCAATCCACTGTCCAAGACCACAC
GACTTCGAGAACGGGGAATACTGGCCCCGGTCTCCCTACTACAATGTGAGTGATGAGATCTCTTTCCACTGCTAT
GACGGTTACACTCTCCGGGGCTCTGCCAATCGCACCTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGCGATC
TGTGACAACGGAGCGGGGTACTGCTCCAACCCGGGCATCCCCATTGGCACAAGGAAGGTGGGCAGCCAGTACCGC
CTTGAAGACAGCGTCACCTACCCTGCAGCCGGGGGCTTACCCTGCGTGGCTCCCAGCGGCGAACGTGTGAGGAA
GGTGGCTCTTGGAGCGGGACGGAGCCTTCTGCCAAGACTCCTTCATGTACGACACCCCTCAAGAGGTGGCCGAA
GCTTTCCTGTCTTCCCTGACAGAGACCATAGAAGGAGTGCATGCTGAGGATGGGCACGGCCCAGGGGAACAACAG
AAGCGGAAGATCGTCTTGGACCCTTCAGGCTCCATGAACATCTACCTGGTGCTAGATGGATCAGACAGCATTGGG
GCCAGCAACTTCACAGGAGCCAAAAGTGTCTAGTCAACTTAATTGAGAAGGTGGCAAGTTATGGTGTGAAGCCA
AGATATGGTCTAGTGACATATGCCACATACCCCAAAATTTGGGTCAAAGTGTCTGAAGCAGACAGCAGTAATGCA
GACTGGGTACGAAGCAGCTCAATGAAATCAATTATGAAGACCACAAGTTGAAGTCAGGGACTAACACCAAGAAG
GCCCTCAGGCAGTGATCAGCATGATGAGCTGGCCAGATGACGTCCCTCCTGAAGGCTGGAACCGCACCCGCCAT
GTCATCATCCTCATGACTGATGGATTGCACAACATGGGCGGGGACCCAATTACTGTGTCATTGATGAGATCCGGGAC
TTGCTATACATTGGCAAGGATCGCAAAAACCCAAGGGAGGATTATCTGGATGTCTATGTGTTTGGGGTTCGGGCCT
TTGGTGAACCAAGTGAACATCAATGCTTTGGCTTCCAAGAAAGACAATGAGCAACATGTGTTCAAAGTCAAGGAT
ATGGAAAACCTGGAAGATGTTTTCTACCAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGCATGGTTTGG
GAACACAGGAAGGGTACCGATTACCACAAGCAACCATGGCAGGCCAAGATCTCAGTCATTGCGCCCTTCAAAGGGA
CACGAGAGCTGTATGGGGGCTGTGGTGTCTGAGTACTTTGTGCTGACAGCAGCACATTGTTTCACTGTGGATGAC
AAGGAACACTCAATCAAGGTCAGCGTAGGAGGGGAGAAGCGGGACCTGGAGATAGAAGTAGTCTATTTTACCCC
AACTACAACATTAATGGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCCATTTGTCTCCCCCTGCACCGAGGGAACAACCTCGAGCTTTG
AGGCTTCCTCCAACCTACCCTTGCCAGCAACAAAAGGAAGAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTT
GTGTCTGAGGAGGAGAAAAAGCTGACTCGGAAGGAGGTCTACATCAAGAATGGGGATAAGAAAGGCAGCTGTGAG
AGAGATGCTCAATATGCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACCCCTCGGTTCCCTTTGT
ACTGGAGGAGTGAGTCCCTATGCTGACCCCAATACTTGCAGAGGTGATTCTGGCGGGCCCTTGATAGTTTACAAG
AGAAGTCGTTTCATTCAAGTTGGTGTAAATCAGCTGGGGAGTAGTGGATGTCTGCAAAAACCAGAAGCGGCAAAAG
CAGGTACCTGCTCACGCCCGAGACTTTTACATCAACCTCTTTCAAGTGTGCTCCCTGGCTGAAGGAGAACTCCAA
GATGAGGATTTGGGTTTTCTATTAAGGGGTTTTCTGCTGGACAGGGGCGTGGGATTGAATTAAACAGCTGCGACA
AC

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FIGURE 1960

MGSNLSPLCLMPFILGLLSGGVTTTPWSLAQPQGSCLLEGVEIKGGSFRLLOEGQALEYVCPSGFYPYPVQTRT
CRSTGWSSTLKTQDQKTVRKAECRAIHCPRPHDFENGEYWPRSPYYNVSDAISFHCYDGYTLRGSANRTCQVNGR
WSGQTAICDNGAGYCSNPGIPIGTRKVG SQYRLSDSVTYHCSRGLTLRGSQRRTCQEGGSWSGTEPSCQDSFMYD
TPQEVAAEFLSSLTETIEGVDAEDGHGPGEQQKRKIVLDPGSMNIYLVLDGSDSIGASNFTGAKKCLVNLIIEKV
ASYGVKPRYGLVTYATYPKIWVKVSEADSSNADWVTQQLNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPE
GWNRTRHVILMTDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNNALASKKDNEQ
HVFVKVDMENLEDVFYQMIDESQSLSLCGMVWEHRKGT DYHKQPWQAKISVIREPSKGHESCMGAVVSEYFVLTA
HCFTVDDKEHSIKVSVGGEKRDLEIEVVLFHPNYNINGKKEAGIPEFYDYDVALIKLKNKLKYGQTIRPICLPCT
EGTTRALRLPPTTTCQQQKEELLPAQDIKALFVSEEEKLTRKEVYIKNGDKKGS CERDAQYAPGYDKVKDI SEV
VTPRFLCTGGVSPYADPNTCRGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVPAHARDFHINLFQVLP
WLKEKLQDEDLGFL

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FIGURE 1961

GGTCCCAAGGCTTTCCAGAGCGAACCTGTGCGGCTGCAGGCACCGGCGTGTGAGTTTCCGGCGTTCCGAAGGAC
TGAGCTCTTGTCGCGGATCCCGTCCGCCGTTTCCAGCCCCAGTCTCAGAGCGGAGCCCACAGAGCAGGGCACCG
GCATGGCCAAAGCCGCGCGATCGGCATCGACCTGGGCACCACTACTCCTGCGTGGGGGTGTTCCAACACGGCA
AGGTGGAGATCATCGCCAACGACCAGGGCAACCGCACCAACCCCAAGTACGTGGCCTTCACGGACACCGAGCGGC
TCATCGGGGATGCGGCCAAGAACCAGGTGGCGCTGAACCCGAGAACACCGTGTTTGACGCGAAGCGGCTGATCG
GCCGCAAGTTCGGCGACCCGGTGGTGCAGTCGGACATGAAGCACTGGCCTTTCAGGTGATCAACGACGGAGACA
AGCCCAAGGTGCAGGTGAGCTACAAGGGGGAGACCAAGGCATTCTACCCCGAGGAGATCTCGTCCATGGTGCTGA
CCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACT
TCAACGACTCGCAGCGCCAGGCCACCAAGGATGCGGGTGTGATCGCGGGGCTCAACGTGCTGCGGATCATCAACG
AGCCACCGGCCGCCGCTACGCCCTGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACC
TGGGCGGGGGCACCTTCGACGTGTCCATCCTGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGG
ACACCCACCTGGGTGGGGAGGACTTTGACAACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACA
AGAAGGACATCAGCCAGAACAAGCGAGCCGTGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAGAGGACCCTGT
CGTCCAGCACCCAGGCCAGCCTGGAGATCGACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATCACCAGGG
CGAGGTTTCGAGGAGCTGTGCTCCGACCTGTTCCGAAGCACCTGGAGCCCGTGAGAAAGGCTCTGCGCGACGCCA
AGCTGGACAAGGCCCAGATTACGACCTGGTCTGGTGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGC
TGCAGGACTTCTTCAACGGGCGCGACCTGAACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGGCGG
TGCAGGCGGCCATCCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCTGT
CGCTGGGGCTGGAGACGGCCGGAGGCGTGATGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGA
CGCAGATCTTCACCACCTACTCCGACAACCAACCCGGGGTGCTGATCCAGGTGTACGAGGGCGAGAGGGCCATGA
CGAAAGACAACAATCTGTTGGGGCGCTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCG
AGGTGACCTTCGACATCGATGCCAACGGCATCCTGAACGTACGGCCACGGACAAGAGCACCGGCAAGGCCAGCA
AGATCACCATCACCAACGACAAGGGCCGCCTGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGT
ACAAAGCGGAGGACGAGGTGCAGCGCGAGAGGGTGTGAGCCAAGAACGCCCTGGAGTCCTACGCCTTCAACATGA
AGAGCGCCGTGGAGGATGAGGGGCTCAAGGGCAAGATCAGCGAGGCGGACAAGAAGAAGGTTCTGGACAAGTGTC
AAGAGGTGATCTCGTGGCTGGACGCCAACACCTTGCCGAGAAGGACGAGTTTGAGCACAAGAGGAAGGAGCTGG
AGCAGGTGTGTAACCCCATCATCAGCGGACTGTACCAGGGTGCCGGTGGTCCCGGGCCTGGGGGCTTCGGGGCTC
AGGGTCCCAAGGGAGGGTCTGGGTGAGGCCCTACCATTGAGGAGGTGGATTAGGGGCCCTTTGTTCTTTAGTATGT
TTGTCTTTGAGGTGGACTGTTGGGACTCAAGGACTTTGCTGCTGTTTTCTATGTATTCTGCTTCAGCTCTTT
GCTGCTTCACTTCTTTGTAAAGTTAAGTTGTAACCTGATGGTAATTAGCTGGCTTCATTATTTTTGTAGTACAAC
CGATATGTTTATTAGAATTCTTTGCATTTAATGTTGATACTGTAAGGGTGTTCGTTCCCTTTAAATGAATCAAC
ACTGCCACCTTCTGTACGAGTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCTTGGCGAAAACACTACAAAGGC
TGGAATGTATGTTTTTATAATTTGTTTATTTAAATATGAAAAATAAAATGTTAACTTT

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FIGURE 1962

MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDKRLIG
RKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYF
NDSQRQATKDAGVIAGLNVLRINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGD
THLGGEFDNRLVNHFVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAV
QAAILMGDKSENVQDLLLLDVAPLSLGLTAGGVM TALIKRNSTIPTKQTQIFTTYSNQPGLIQVYEGERAMT
KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKASKITITNDKGRLSKEEIERMVQEAKEY
KAEDVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE
QVCNPIISGLYQGAGGPGPGGFGAQQGPKGGSGSGPTIEEVD

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FIGURE 1963

GCTGCTGCGACAGTCCACTACCTTTTTTCGAGAGTGA CTCCC GTTG TCCCAAGGCTTCCCAGAGCGAACCTGTGCG
GCTGCAGGCAACCGCGCGTTCGAGTTTCCGGCGTCCGGAAGGACCGAGCTCTTCTCGCGGATCCAGTGTTCCGTTT
CCAGCCCCCAATCTCAGAGCCGAGCCGACAGAGAGCAGGGAACCGGCATGGCCAAAGCCGCGGCGATCGGCATCG
ACCTGGGCACCACTACTCTCTGCGTGGGGGTGTTCCAACACGGCAAGGTGGAGATCATCGCCAACGACCAGGGCA
ACCGCACCACCCCACTACGTGGCCTTACGGACACCGAGCGGCTCATCGGGGATGCGGCCAAGAACCAGGTGG
CGCTGAACCCGCAGAACACCGTGTGTTGACGCGAAGCGGCTGATCGGCCGCAAGTTCGGCGACCCGGTGGTGCAGT
CGGACATGAAGCACTGGCCTTTCCAGGTGATCAACGACGGAGACAAGCCCAAGGTGCAGGTGAGCTACAAGGGGG
ACACCAAGGCATTCTACCCGAGGAGATCTCGTCCATGGTGCTGACCAAGATGAAGGAGATCGCCGAGGCGTACC
TGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACTTCAACGACTCGCAGCGCCAGGCCACCAAGG
ATGCGGGTGTGATCGCGGGGCTCAACGTGCTGCGGATCATCAACGAGCCACGGCCGCCATCGCCTACGGCC
TGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACCTGGGCGGGGGCACCTTCGACGTGTCCATCC
TGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGGACACCCACCTGGGTGGGGAGGACTTTGACA
ACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACAAGAAGGACATCAGCCAGAACAAGCGAGCCG
TGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAAGAGGACCCTGTCTCCAGCACCCAGGCCAGCCTGGAGATCG
ACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATCACCAGGGCGAGGTTGAGGAGCTGTGCTCCGACCTGT
TCCGAAGCACCCCTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCAAGCTGGACAAGGCCAGATTACGACCTGG
TCCTGGTCGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGCTGCAGGACTTCTTCAACGGGCGCGACCTGA
ACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGCGGTGCAGGCGGCCATCCTGATGGGGGACAAGT
CCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCCTGTCGCTGGGGCTGGAGACGGCCGGAGGCGTGA
TGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGACGCGAGATCTTACCACCTACTCCGACAACC
AACCCGGGGTGTGATCCAGGTGTACGAGGGCGAGAGGGCCATGACGAAAGACAACAATCTGTTGGGGCGCTTCG
AGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCGAGGTGACCTTCGACATCGATGCCAACGGCA
TCCTGAACGTACGCGCCACGGACAAGAGCACCGGCAAGGCCAACAAAGATCACCATACCAACGACAAGGGCCGCC
TGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAAGTACAAAGCGGAGGACGAGGTGCAGCGCGAGA
GGGTGTGAGCCAAGAACGCCCTGGAGTCTACGCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGGCTCAAGG
GCAAGATCAGCGAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTGATCTCGTGGCTGGACGCCAACA
CCTTGCCGAGAAGGACGAGTTTGAGCACAAAGAGGAAGGAGCTGGAGCAGGTGTGTAACCCCATCATCAGCGGAC
TGTACCAGGGTGCCGGTGGTCCCGGCCCTGGGGGCTTCGGGGCTCAGGGTCCCAAGGGAGGGTCTGGGTGAGGCC
CCACCATTGAGGAGGTAGATTAGGGGCCTTTCCAAGATTGCTGTTTTTTGTTTTGGAGCTTCAAGACTTTGCATTT
CCTAGTATTTCTGTTTGTGAGTTCTCAATTTCTGTGTTTGCAATGTTGAAATTTTTTGGTGAAGTACTGAACCTT
GCTTTTTTCCGGTTTCTACATGCAGAGATGAATTTATACTGCCATCTTACGACTATTTCTTTTAAATACAC
TTAACTCAGGCCATTTTTTAAGTTGGTTACTTCAAAGTAAATAAACTTTAAAATTCAAGTGA

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FIGURE 1964

MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDKRLIG
RKFGDPVVQSDMKHWPVQVINDGDKPKVQVSYKGDTKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYF
NDSQRQATKDAGVIAGLNLVRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGD
THLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAV
QAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSQNPQGVLIQVYEGERAMT
KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAKEY
KAEDEVQREVSANKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE
QVCNPIISGLYQGAGGPGPGGFGAQPCKGSGSGPTIEVD

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FIGURE 1965

GGCTTCCTCCTCCCCCTCTACTCTACCCAGCTTGCGCTCCCCAGCCGCAAGTCGGGCCGCGCTTTGCCCGTCAGCGC
TTGGAGCTTTCTGCGTCGCTTCCCGCTGCGCCTGCGCGGTCCCGCCTCGCCCCACGCGCGGGCTCGCGCTTCGGT
TTCCCCAGACCTGCTCGCAGCACCCCTGCTGTCTTCCCGGTCCGGCCCCGCTGCCCCGCGGCGCCAGCACCAATGCTCT
TCTATTCTTTTTTCAAGTCCCTTGTGGGCAAGGATGTGGTTCGTGGAATAAAGAATGACCTGAGCATCTGTGGAA
CCCTCCATTCTGTGGATCAGTATCTCAACATCAAATAACTGACATCAGTGTACAGACCCTGAGAAATACCCCTC
ACATGTTATCAGTGAAGAACTGCTTCATTGCGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTGC
ACACACAGTTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTATGATGGCTCCTCCTCCTCTTCC
CCTCCCTCTTTCATTGGTGACCCATAACCCCAAGTCCCAGCCCAGAACCCCTAACCCCAATACTTGAAGGGGTT
TTGTTTTTTTACTAATGATGGTTTTGTGGGTTTTTTTTTAAGGGATGAGTGGATGAGAGGAGTAATAGGGAACAGC
TATCCTCTCTTGAGAAGGGGAGGATAAGTAGGCTGGGAACTTCAAAGCCTTCCCAGTCCCCAGCACCTGCCTTT
CTCACTACTTCTCTGGAGATGGTAGGAGAGTTTCCTAGGTCTTCCAGGGCAGCATGTGATTTCATTTGGGGATGG
AAGGAATCTGTCCCGCATCGGGAATAAAATTTATGATGC

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FIGURE 1966

MLFYSEFFKSLVGKDVVVELKNDLSICGTLHSVDQYLNKLTDISVTDPEKYPHMLSVKNCFIRGSVVRYVQLPAD
EVDLTQLLQDAARKEALQQKQ

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FIGURE 1967A

GTCACAAAGGGGGGAACACGTGGGCGCCGGCTGCCGGGGCGGCGATCTTAGGGAAGTACGGGTACCTGGAGAGCC
GCCCACCGTCTCTGCCCCGCTCGACTCCTCCGCCGGGGCCGCTCGGCCGGTCCAGCCGCGGGCCGGCGCCTGGCTGT
GAGGTGGATTCCCGGCCAGTCTGACCATCTCCCTCCAGTTTTTCCACTTCGTTTCGGACCTTCTCATAACTATGT
CCACCCTCTACGTCTCCCTCAGGATGCCTTCCCCAGCCTCCGAGCCCTCATAGCCGCTCGCTATGGGGAGG
CTGGGGAGGGTCCCGGATGGGGAGGAGCCACCCCGCATCTGTCTCCAGCCACCCCGACTAGCAGGACTCCCT
TTCCCCACCCCGCTGCCGGCCCTGGAGCAGGGGCCCGGTGGGCTCTGGGTGTGGGGGGCCACGGCTGTGGCCC
AGCTGCTGTGGCCAGCAGGCTGGGGGGGCCAGGGGGCAGCCGGGGCGGTGTCTTGTCCAACAGTGGGTACGTT
ACGCCGACACGGAGTTAATACCAGCTGCCTGTGGAGCAACGCTGCCGGCCCTGGGACTCCGAAGCTCGGCCCAGG
ACCCCCAGGCTGTGCTGGGGGGCCCTGGGCAGGGCCCTGAGCCCTTGGAGGAGTGGCTTCGGCTGCACACCTACT
TGGCCGGGGAGGCCCCCACTCTGGCTGACCTGGCGGTGTACAGCCTTGCTGCTGCCTTTCCGATACGTCCTAG
ACCCACCTGCCCGCCGGATCTGGAATAATGTGACTCGCTGGTTTGTACGTGTGTCCGGCAGCCAGAATTCCGAG
CCGTGCTAGGAGAAGTGGTTCTATACTCAGGAGCCAGGCCTCTCTCATCAGCCAGGCCCCGAGGCTCCTGCC
TCCCAAAGACAGCTGCTCAGCTCAAGAAAGAGGCAAGAAACGGGAGAAGCTAGAGAAATTCCAACAGAAGCAGA
AGATCCAACAGCAGCAGCCACCTCCAGGGGAGAAGAAACCAAAACCAGAGAAGAGGGAGAAACGGGATCCTGGGG
TCATTACCTATGACCTCCCAACCCCAACCCGGGAAAAGAAAGATGTGAGTGGCCCCATGCCCGACTCCTACAGCC
CTCGGTATGTGGAGGCTGCCTGGTACCCTTGGTGGGAGCAGCAGGGCTTCTTCAAGCCAGAGTATGGGCGTCCTA
ATGTGTGACAGCAAA1CCCCGAGGTGTCTTCATGATGTGCATCCACCCCCCAATGTGACAGGCTCCCTGCACC
TGGGCCATGCACTACCAACGCCATCCAGGACTCCCTGACTCGATGGCACCAGCATGCGTGGGGAGACCACCTGT
GGAACCTGGCTGTGACCATGCAGGTATTGCCACCCAGGTGGTGGTGGAGAAGAAGCTATGGCGTGAGCAGGGAC
TGAGCCGGCACCAGCTGGGCCGCGAGGCCTTTCTACAGGAAGTCTGGAAGTGAAGGAGGAGAAAGGTGACCGGA
TTTACCACAGTTGAAGAAGCTTGGCAGCTCCTTGGACTGGGATCGAGCCTGTTTACCATGGACCCTAAACTCT
CAGCAGCTGTGACAGAGCCTTTGTCCGGCTTCACGAGGAAGGCATCATCTATCGCAGTACCCGCCTTGTTAACT
GGTCTGCACCCTCAACTCCGCCATCTCTGACATTGAGGTGGATAAGAAGGAGCTGACAGGTGACACCCTGCTCT
CCGTGCTGGCTACAAGGAGAAGGTGGAGTTCGGGGTCTCGTGTCTTTGCCTATAAGGTCCAAGGCTCAGATA
GCGACGAGGAGGTGGTGGTGGCAACAACCTCGGATCGAGACAATGCTGGGAGATGTGGCTGTAGCTGTGACCCCCA
AAGATACCAGATAACCAGCACCTGAAGGGGAAGAACGTGATCCACCCATTCTGTCTCGGAGCCTTCCCATTGTCT
TCGATGAATTTGTGGACATGGACTTTGGCACAGGTGCTGTGAAGATCACCCCGCACATGACCAAAATGACTATG
AAGTTGGGCAGCGGCACGGCTGGAGGCCATCAGCATCATGGACTCCCGGGGGGCCCTCATCAATGTGCCTCCGC
CTTCTCGGGCTGCCAGGTTTGGAGCCAGGAAAGCGGTGCTGGTGGCGCTGAAGGAGCGGGGACTGTTCCGTG
GCATTGAGGACAACCCCATGGTGGTGCCACTTTGCAACCGGTGCAAGGACGTGGTAGAGCCTCTGCTGCGGCCGC
AGTGGTACGTTGCTGCGGGGAGATGGCCAGGCTGCCAGCGCCGCTGTGACTCGGGGTGACCTCCGCATCCTGC
CTGAGGCCCATCAGCGCACATGGCATGCCTGGATGGACAACATCCGGGAGTGGTGCATTTCCAGGCAGCTGTGGT
GGGGCCATCGCATCCAGCCTACTTTGTCACTGTGAGTACCCAGCGGTGCCCCCTGGGGAGGACCCTGATGGGC
GGTACTGGGTGAGTGGACGCAATGAGGCGGAGGCCCGGAGAAGGCAGCCAAGGAGTTCGGAGTGTCCCTGACA
AGATCAGTCTCCAGCAAGATGAGGATGTATTGGATACCTGGTTCTCTCTGGCCTCTTCCCTTATCCATTTTGG
GCTGGCCCAACCAGTCAGAAGACCTGAGTGTGTTCTACCCCGGGACACTGCTGGAGACCGGTCTATGACATCCTCT
TCTTCTGGGTGGCCCGGATGGTCTATGCTGGGCCTGAAGCTCACGGGCAGGCTGCCCTTTAGAGAGGTCTACCTCC
ATGCCATCGTGCGAGATGCTCACGGCCGGAAGATGAGCAAGTCTCTAGGCAATGTATCGATCCCTGGATGTCA
TCTATGGAATCTCCCTGCAGGGCCTCCACAACCAGCTGCTGAACAGCAACCTGGATCCCAGCGAGGTGGAGAAGG
CCAAAGAAGGGCAGAAAGCTGACTTCCAGCGGGGATTCTGAATGTGGCACCGATGCTCTCCGTTTGGATTAT
GTGCCTACATGTCCAGGGTCGTGACATCAACCTGGATGTGAACCGGATACTGGGTACCGCCACTTCTGCAACA
AGCTCTGGAATGCCACCAAGTTTGCCCTTCGTGGCCTTGGGAAGGGTTTTGTGCCCTCACCCACCTCCAGCCCG
GAGGCCATGAGAGCCTGGTGGACCGCTGGATCCGCAGCCGCCTGACAGAGGCTGTGAGGCTCAGCAATCAAGGCT
TCCAGGCCTACGACTTCCCGGCCGTACCACTGCCAGTACAGCTTCTGGCTCTATGAGCTCTGTGATGTCTACT
TGGAGTGCCTGAAACCTGTACTGAATGGGGTGGACCAGGTGGCAGCTGAGTGTGCCCGCCAGACCCTGTACACTT
GCCTGGACGTTGGCCTGCGGCTGCTCTCACCTTCATGCCCTTCGTGACGGAGGAGCTGTTCCAGAGGCTGCCCC
GGAGGATGCCGCAAGCTCCCCCTAGCCTCTGTGTTACCCCTACCCGGAGCCCTCAGAGTGCTCCTGGAAGGACC
CCGAGGCAGAAGCCGCCCTTGAGCTGGCGCTAAGCATCACGCGAGCCGTGCGCTCCCTGCGGGCCGACTACAACC

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FIGURE 1967B

TCACCCGGATCCGGCCTGACTGTTTCCTGGAAGTGGCGGATGAGGCCACGGGCGCCCTGGCATCGGCGGTGTCGG
GCTACGTGCAGGCCCTGGCCAGCGCAGGTGTGGTGGCTGTTCTGGCCCTGGGGGCTCCCGCCCCCAGGGTTGCG
CTGTGGCTCTGGCTTCTGATCGCTGCTCCATCCACCTGCAGCTTCAGGGGCTGGTGGACCCTGCACGGGAGCTGG
GCAAGCTGCAAGCCAAGCGAGTTGAGGCCAGCGGCAGGCCAGCGTCTGCGGGAACGCCGTGCTGCCTCGGGCT
ATCCTGTCAAGGTGCCGCTCGAAGTCCAGGAGGCAGATGAAGCCAAGCTCCAACAGACAGAAGCAGAGCTCAGGA
AGGTGGATGAGGCCATCGCCCTATTCCAGAAGATGCTG**TGA**TCCACCACCCAGCTTCACCCCTCACCCCCAGCGG
CTCACCATGGGGATGGCAGCAATAAAATATTTTCCACAAAA

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FIGURE 1968

MSTLYVSPHPDAFP SLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTPFPPRLPALEQGP GGLWVWGATAV
AQLLWPAGLGGPGGSRAAVLVQQWVS YADTELIPAACGATLPALGLRSSAQDPQAVLGALGRALSPLEEWLRLHT
YLAG EAPTLADLA AVTALLLPFRYVLDPPARRIWN NVTRWFVTCVRQPEFRAVLGEVVLYSGARPLSHQPGPEAP
ALPKTAAQLKKEAKKREKLEKFQQKQKIQQQQPPPG EKKPKPEKREKRDPGVITYDLPTPPGEKKDVSGPMPDSY
SPRYVEAAWYPWWEQQGFFKPEYGRPNVSAANPRGVFMMCIPPPNVTGSLHLGHALTNAIQDSLTRWHRMRGETT
LWNPGCDHAGIATQVVVEKKLWREQGLSRHQLGREAF LQEVWKWKEEKGDRIYHQLKKLGSSLDWDRACFTMDPK
LSAAVTEAFVRLHEEGI IYRSTRLVNWSCTLNSAISDIEVDKKELTGRTLLSVPGYKEKVEFGVLVSFAYKVQGS
DSDEEVVVATTRIETMLGDVAVAVHPK DTRYQHLKGK NVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQND
YEVGQRHGLEAISIMDSRGALINVPPPF LGLPRFEARKAVLVALKERGLFRGIEDNPMVVPLCNRSKDVVEPLL R
PQWYVRCGEMAQAASA AVTRGDLRILPEAHQRTW HAWMDNIREWCISRQLWWGHRIPAYFVTVSDPAVPPGEDPD
GRYWVSGRNEAEAREKAAKEFGVSPDKISLQQDE DVLDTWFSSGLFPLSILGWPNQSEDLSVFYPGTLLETGHDI
LFFWVARMVMLGLKLTGRLPFRE VYLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLSNLDPSEVE
KAKEGQKADFPAGIPEC GTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNATKFALRGLGKGFVPSPTSQ
PGGHESLVDRWIRSLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLECLKPVLNGVDQVAAECARQ TLY
TCLDVGLRLLSPFMPFVTEELFQRLPRRMPQAPP SLCVTPYPEPSECSWKDPEAEAALELALSITRAVRSLRADY
NLTRIRPDCFLEVADEATGALASAVSGYVQALASAGVVAVLALGAPAPQGCAVALASDRCSIHLQLQGLVDPARE
LGKLQAKRVEAQRQAQRLRERRAASGYPVKVP LEVQEADEAKLQOTEAE LRKVDEAIALFQKML

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FIGURE 1969

GCGGCTCTCTGATCCAGCCCGGGAGAGGACCGAGCTGGAGGAGCTGGGTGTGGGGTGCGTTGGGCTGGTGGGGAG
GCCTAGTTTGGGTGCAAGTAGGTCTGATTGAGCTTGTGTTGTGCTGAAGGGACAGCCCTGGGTCTAGGGGAGAGA
GTCCCTGAGTGTGAGACCCGCCTTCCCCGGTCCCAGCCCTCCCAAGTTCCCCAGGGACGGCCACTTCCTGGTCC
CCGACGCAACCATGGCTGAAGAACAACCGCAGGTGCAATTGTTTCGTGAAGGCTGGCAGTGATGGGGCCAAGATTG
GGAAGTGGCCATTCTCCAGAGACTGTTTCATGGTACTGTGGCTCAAGGGAGTCACCTTCAATGTTACCACCGTTG
ACACCAAAAGGCGGACCGAGACAGTGCAGAAGCTGTGCCCAGGGGGGGCAGCTCCCATTCCTGCTGTATGGCACTG
AAGTGCACACAGACACCAACAAGATTGAGGAATTTCTGGAGGCAGTGCTGTGCCCTCCCAGGTACCCCAAGCTGG
CAGCTCTGAACCCCTGAGTCCAACACAGCTGGGCTGGACATATTTGCCAAATTTTCTGCCTACATCAAGAATTCAA
ACCCAGCACTCAATGACAATCTGGAGAAGGGACTCCTGAAAGCCCTGAAGGTTTTAGACAATTACTTAACATCCC
CCCTCCCAGAAGAAGTGGATGAAACCAAGTGTGAAGATGAAGGTGTCTCTCAGAGGAAGTTTTTGGATGGCAACG
AGCTCACCTGGCTGACTGCAACCTGTTGCCAAAGTTACACATAGTACAGGTGGTGTGTAAGAAGTACCGGGGAT
TCACCATCCCCGAGGCCTTCCGGGGAGTGCATCGGTACTTGAGCAATGCCCTACGCCCGGGAAGAATTCGCTTCCA
CCTGTCCAGATGATGAGGAGATCGAGCTCGCCTATGAGCAAGTGGCAAAGGCCCTCAAATTAAGCCCCCTCCTGGGA
CTCCCTCAACCCCTCCATTTTCTCCACAAAGGCCCTGGTGGTTTCCACATTGCTACCCAATGGACACACTCCAA
AATGGCCAGTGGGCAGGGAATCCTGGAGCACTTGTTCGGGATGGTGTGGTGGGAAGAGGGGATGAGGGAAAGAAA
TGGGGGCGCTGGGTGAGATTTTATTGTGGGGTGGGTGAGTAGGACAACATATTTAGTAATAAAATACAGAAT
AAAAATCAAGTGTTTTTAAAAAAA

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FIGURE 1970

MAEEQPQVELFVKAGSDGAKIGNCPFSQRLFMVLWLKGVTFNVTTVDTKRRTETVQKLCPPGGQLPFLLYGTEVHT
DTNKIEEFLEAVLCPPRYPKLAALNPESNTAGLDIFAKFSAYIKNSNPALNDNLEKGLLKALKVLDNYLTSPLPE
EVDETSAEDEGVSQRKFLDGNELTLADCNLLPKLHIVQVVCKKYRGFTIPEAFRGVHRYLSNAYAREEFASCPD
DEEIELAYEQVAKALK

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FIGURE 1971

ATGAGCAGCTCAGAGGAGGTGTCCTGGATTTCTGGTTCTGTGGGCTCCGTGGCAATGAATTCTTCTGTGAAGTG
GATGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTACCGACAAGCTCTA
GACATGATCTTGGACCTGGAGCCTGATGAAGAACTGGAAGACAACCCCAACCAGAGTGACCTGATTGAGCAGGCA
GCCGAGATGCTTTATGGATTGATCCACGCCCGCTACATCCTTACCAACCGTGGCATCGCCCAGATGTTGGAAAAG
TACCAGCAAGGAGACTTTGGTTACTGTCCTCGTGTGTACTGTGAGAACCAGCCAATGCTTCCCATTGGCCTTTCA
GACATCCCAGGTGAAGCCATGGTGAAGCTCTACTGCCCCAAGTGCATGGATGTGTACACACCCAAGTCATCAAGA
CACCATCACACGGATGGCGCCTACTTCGGCACTGGTTTCCCTCACATGCTCTTCATGGTGCATCCCGAGTACCGG
CCCAAGAGACCTGCCAACCAGTTTGTGCCCAGGCTCTACGGTTTCAAGATCCATGCGATGGCCTACCAGCTGCAG
CTCCAAGCCGCCAGCAACTTCAAGAGCCCAGTCAAGACGATTGCTTGA

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FIGURE 1972

MSSSEEVSWISWFCGLRGNEFFCEVDEDIQDKFNLTGLNEQVPHYRQALDMILDLEPDDEELEDNPNQSDLIEQA
AEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDIPGEAMVKLYCPKCMDVYTPKSSR
HHHTDGAYFGTGFPHMLFMVHPEYRPRPANQFVPRLYGFKIHAMAYQLQLQAASNFKSPVKTIK

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FIGURE 1973A

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCCGGCCCGGCGGCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGGCCGTCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTGGGCCATGGAGCCTAATGATA
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT
TTATTGTGGGGGCCAGATGAATGTAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGAGCATCCCATCTGAAA
AACAACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG
TTATCCACCTGGTGGAACGGGCTCCTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCT
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCTGGGGCCTCTGTTTCATGACCGGAATGCCAACA
GCTATGTCATGGTTGGAACCTTCAATCTTCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGG
CCCCGATTGAGAGTGAAGCCCGGGTACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTAT
CCCGGATGGAGACTCTCCCTACCTTCACTGTGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCGCAGC
CACCGGCTGTGACCCCGGAGCCAGTAGCCTTGAAGCTCTCAAACATCAGAACAGTTGAAAGTGAAGCACCTCCCC
GGGAGCCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAGCCAGAACCCGGAGCTCACTCCTGGCCCCAGCCC
CAGCGGGCCCCAACACCTGCCCCGGAACAAATGCACCCAACCATCCTTCCCCTGCGGAGTATGTCGAGGTGCTCC
AGGAGCTACAGCGGCTGGAGAGTCGCTCCAGCCCTTCTTGACGCGTACTACGAGGTCTGGGTGCTGCTGCCA
CCACGGACTACAATAACAATCAGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTGGTAGGGGAGAGCCTGC
GACTGCTGGGCAACACCTTTGTTGCACTGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCCACGACACCTGC
ATGTGGTCCGGCCTATGTCTCACTACACCACCCCATGGTGCTCCAGCAGGCAGCCATTCCCATACAGATCAATG
TGGGAACCACTGTGACCATGACAGGAAATGGGACTCGGGCCCCCCCCAACTCCCAATGCAGAGGCACCTCCCCCTG
GTCTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATGTGAGTCCTCAGCTGAGGGGGCTCCCCGCCAG
GTCCAGCTCCCCGCCAGCCACCAGCCACCCGAGGGTCATCCGGATTTCACCAGAGTGTGGAACCCGTGGTCA
TGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTGGTGTTCGAGTGCTCCCACTGGCCCCCTGGGAC
CCCCCTGGTTCATGGCCAAACCTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGATTGCC
GGCCCACTCCTCCACAGGCTCGGCCTTCCCATCCTGGAGGGCCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTC
TGGGTACCAATGCCTCGTTGGCCAGATGGTGAGCGGCCTTGTGGGGCAGCTTCTTATGCAGCCAGTCCTTGTGG
CTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCTGCCACTGCTTCTGCCAGTGCTGGCACCACCAACACAG
CTACCACAGCTGGCCCCGCTCCTGGGGGGCTGCCAGCCTCCACCCACCCCTCAACCTCCATGGCTGATCTTC
AGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCAGGGCCAGGGGCTGGAGGGCCTGGTGTGGCTTCTCCCA
CCATCACTGTGGCGATGCTTGGTGTCCCTGCCTTTCTCCAAGGCATGACTGACTTCTTGAGGCAACACAGACAG
CCCCCTCCACCACCCACCTCCTCCACCCCAACACCTGCCCCAGAGCAGCAGACCATGCCCCACAGGCTCCC
CTTCTGGTGGCGCAGGGAGTCTGGAGGCCTGGGTCTTGAGAGCCTGTCACCGGAGTTTTTACCTCAGTGGTGC
AGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAGTATTGCTGCCTTCATAC
AACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTGGATTCTTTGGGGCCTTGCTTT
CTCTTCTGTGCCAGAACTTCTCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCCAGCCACTACAACGGC
TCCAGCCCCAGCTGCGATCCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGA
TGGCAACCCACACATTGATCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTCTTGGTGCAGGTTTCAGCCAG
GTGTGGACATCATCCGACAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATT
GCACAGATAGTGGATTGGGGGCCGTTGCTGGAGTTGTGTAACCAAGGCCTGTTTGAATGCCTGGCCCTAAACC
TGCATGCTTGGGGGGACAGCAGATGGAGCTTGTGCTGTTATCAATGGCCGAATTCGTCGTATGTCTCGTGGGG
TGAATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGACTGAGGCTTCAGGTGGTACTGGAGCACATGCCTG
TAGGCCCTGATGCCATTCTCAGATACGTTTCGAGGGTTGGTGATCCCCCAGCCACTTCTGAGGAGCCAATGG
AAGTTCAGGGAGCAGAAAGAGCTTCCCCTGAGCCTCAGCGGGAGAATGCTTCCCAGCCCCCTGGAACAACAGCAG
AAGAGGCCATGTCCCAGGTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTTCAGCTG
AGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTTCAGAGCCAGCGGA
AGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGG
GTGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGGCAGCTAAGGCAGCCGGAGCTCGGGCCCTGACGA
CCCCGAGAGCCTGAGCCGGGACCTGGAGGCACCAAGAGGTTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATA

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FIGURE 1973B

TACAAAAACGACTGCAGGAAGACCCCAACTACAGTCCCCAGCGCTTCCCCAATGCCCAGCGGGCCTTTGCTGATG
ATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCCTCTTCCTTCACAGTATTTAAGA
AATAAAAGTCGGATTTTTCTGGC

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FIGURE 1974

MEPNQSTSTAVEEPDSLEVLVKTLDSTQTRTFIVGAQMNKVEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHDRNANSYVMVGTFNLPSDGSAVDVH
INMEQAPIQSEPRVRLVMAQHMIRDIQTLLSRMETLPYLQCRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVE
SEAPPREPMEAEVEERAPAQNPELTPGPAPAGPTPAPETNAPNHPSPAEYVEVLQELQRLQESRLQPFLLQRYEY
LGAAATTDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRNLACTPPRHLHVVRPMSHYTTPMVLQQAII
PIQINVGTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSTNVESSAEGAPPPGPAAPPATSHPRVIRISHQS
VEPVVMMHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGT
LQGAGLGTNASLAQMVSGLVGQLLMQPVVLAQGTGPMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQP
SMADLQFSQLLGNLLGPAGPGAGGPGVASPTITVAMPGVPAFLQGMTDFLQATQTAPPPPPPPPPPPPPAPEQQTM
PPPGSPSGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSESIAAFIQRLSGSSNIFEPGADGALGF
FGALLSLLCQNF SMVDVVMLLHGHFQPLQRLQPQLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSL
VQVQPGVDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIR
RMSRGVNP SLVSWLTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASPA
PGTTAEAEAMSRGPPPAPEGGSRDEQDGASAETEPWAAVPPPEWVPIIQQDIQSQRKVQPPLSDAYLSGMPAKR
RKTMQGEGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFPAQ
RAFADDP

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FIGURE 1975A

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCGGCCCCGGCCCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGCCGTCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTGCGCCATGGAGCCTAATGATA
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT
TTATTGTGGGGGCCAGATGAATGTAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGAGCATCCCATCTGAAA
AACAACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG
TTATCCACCTGGTGAACGGGCTCCTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGTCTGCCT
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCTGGGGCCTCTGTTTCATGACCGGAATGCCAACA
GCTATGTCATGGTTGGAACCTTCAATCTTCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGG
CCCCGATTGAGAGTGAGCCCCGGGTACGGCTGGTGTGGCTCAGCACATGATCAGGGATATACAGACCTTACTAT
CCCGGATGGAGTGTGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCGCAGCCACCGGCTGTGACCCGG
AGCCAGTAGCCTTGAGCTCTCAAACATCAGAACCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCATGGAGGCAG
AAGAAGTGAGGAGCGTGCCCCAGCCAGAACCCGGAGCTCACTCCTGGCCAGCCCCAGCGGGCCCAACACCTG
CCCCGAAACAAATGCACCCAACCATCCTTCCCCTGCGGAGTATGTGAGGTGCTCCAGGAGCTACAGCGGCTGG
AGAGTCGCTCCAGCCCTTCTTGACGCGCTACTACGAGGTCTGGGTGCTGCTGCCACCACGGACTACAATAACA
ATCAGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTTGGTAGGGGAGAGCCTGCGACTGCTGGGCAACACCT
TTGTTGCACTGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCACGACACCTGCATGTGGTCCGGCCTATGT
CTCACTACACCACCCCATGGTGTCTCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACTGTGACCA
TGACAGGAAATGGGACTCGGCCCCCCCCAACTCCCAATGCAGAGGCACCTCCCCCTGGTCTGGGACGGCCTCAT
CCGTGGCTCCGTCTTCTACCAATGTCGAGTCTCAGCTGAGGGGGCTCCCCCGCCAGGTCCAGCTCCCCCGCCAG
CCACCAGCCACCCGAGGGTCATCCGGATTTCCCACCAGAGTGTGGAACCCGTGGTCATGATGCACATGAACATT
AAGATTCTGGCACACAGCCTGGTGGTGTTCAGAGTGTCTCCACTGGCCCCCTGGGACCCCCCTGGTCATGGCCAA
CCCTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGTATGCCCCGGCCACTCCTCCACAGG
CTCGGCCTTCCCATCCTGGAGGGCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTCTGGGTACCAATGCCTCGT
TGGCCCAGATGGTGAGCGGCCCTTGTGGGGCAGCTTCTTATGCAGCCAGTCTTGTGGCTCAGGGGACCCAGGTA
TGGCTCCACCGCCAGCCCTGCCACTGCTTCTGCCAGTGTGGCACCAACACAGCTACCACAGCTGGCCCCG
CTCCTGGGGGGCCTGCCAGCCTCCACCCACCCCTCAACCCTCCATGGCTGATCTTCAGTTCTCTCAGCTTCTGG
GGAACCTGCTAGGGCCTGCAGGGCCAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCACCATCACTGTGGCGATGC
CTGGTGTCCCTGCCTTTCTCCAAGGCATGACTGACTTCTTGAGGCAACACAGACAGCCCCCTCCACCACCCCCAC
CTCCTCCACCCCCACCACCTGCCCCAGAGCAGCAGACCATGCCCCACCAGGCTCCCTTCTGGTGGCGCAGGGA
GTCTGGAGGCCTGGGTCTTGAGAGCCTGTACCCGGAGTTTTTACCTCAGTGGTGCAGGGTGTGCTCAGCTCCC
TGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAAGTATTGCTGCCTTCATACAACGCCTCAGTGGATCCA
GCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTTGGATTCTTTGGGGCCTTGCTTTCTCTTCTGTGCCAGAACT
TCTCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCCAGCCACTACAACGGCTCCAGCCCCAGCTGCGAT
CCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGATGGCAACCCACACATTGA
TCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTTCTTGGTGCAGGTTTCAGCCAGGTGTGGACATCATCCGGA
CAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATTGCACAGATAGTGGATTTG
GGGCCCCGTTGCTGGAGTTGTGTAACCAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGAC
AGCAGATGGAGCTTGTGCTGTTATCAATGGCCGAATTGCTCGTATGTCTCGTGGGGTGAATCCCTCCTTGGTGA
GCTGGCTGACCACTATGATGGGACTGAGGCTTCAGGTGGTACTGGAGCACATGCCTGTAGGCCCTGATGCCATT
TCAGATACGTTTCGAGGGTTGGTGTATCCCCCCCAGCCACTTCTGAGGAGCCAATGGAAGTTTCAGGGAGCAGAAA
GAGCTTCCCCTGAGCCTCAGCGGGAGAATGCTTCCCCAGCCCCGGAACAACAGCAGAAGAGGCCATGTCCCAG
GTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAG
CTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTTCAGAGCCAGCGGAAGGTGAAACCGCAGCCCC
CTCTGAGTGTATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGGGTGAAGGGCCCCAGCTGC
TTCTCTCAGAGGCTGTGAGCCGGGCAGCTAAGGCAGCCGGAGCTCGGCCCTGACGAGCCCCGAGAGCCTGAGCC
GGGACCTGGAGGCACCAGAGGTTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATATACAAAACGACTGCAGG

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FIGURE 1975B

AAGACCCCAACTACAGTCCCCAGCGCTTCCCCAATGCCAGCGGGCCTTTGCTGATGATCCTTAGCTCTTTGCTC
TATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCCTCTTCCTTCACAGTATTTAAGAAATAAAAGTCGGATTTTT
CTGGC

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FIGURE 1976

MEPNDSTSTAVEEPDSLEVLVKTLDQSQTRTFIVGAQMNVKEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHDRNANSYVMVGTFLNPSDGSADVH
INMEQAPIQSEPRVRLVMAQHMIRDIQTLLSRMECRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVESEAPPR
EPMEAEEVEERAPAQNPELTPGPAPAGPTPAPETNAPNHPSPA EYVEVLQELQRLSRLQPFLLQRYEVLGAAAT
TDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCNLACTPPRHLHVVRPMSHYTTPMVLQQAAPIQIN
GTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSINVESSAEGAPPPGPAPPPATSHPRVIRISHQSVEPVVM
MHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGTLQGAGL
GTNASLAQMVSGLVGQLMQPVLVAQGTGPMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQPSMADLQ
FSQLLGNLLGPAGPGAGGSGVASPTITVAMPGVPAFLQGMDFLQATQTAPPPPPPPPPPPAPEQQTMPPPGSP
SGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSIESIAAFIQRLSGSSNIFEPGADGALGFFGALLS
LLCQNFMSVDVVMLLHGHFQPLQRLQPLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSLVQVQPG
VDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIRMSRGV
NPSLVSWLTTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASPAPGTAE
EAMSRGPPPAPEGGSRDEQDGASAETEPWAAAVPPEWVPIIQQDIQSQRKVQPPLSDAYLSGMPAKRRKTMQG
EGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFPAQRAFADD
P

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FIGURE 1977A

TAGTGCGACGCACGCAGGCGTAGTACGGTCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCGGCCCCGGCCCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGGCCGTCGGTGGCAGAGACCTGTGGGCCATGGAGCCTAATGATAGTACCAGTACCCTGTGGAGGAGC
CTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCTTTATTTGTGGGGGCCAGATGAATG
TAAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGACGATCCCATCTGAAAAACAACGGCTCATTTACCAGGGAC
GAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGGTTATCCACCTGGTGGAACGGGCTC
CTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCTCAGCCACTCATGGTGGGGGATCCC
CCCCTGGTACTCGGGGGCCTGGGGCCTCTGTTTCATGACCGGAATGCCAACAGCTATGTCATGGTTGGAACCTTCA
ATCTTCCTAGTGACGGCTCTGCTGTGGATGTTTACATCAACATGGAACAGGCCCCGATTAGAGTGAGCCCCGGG
TACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTATCCCGGATGGAGTGTGAGGAGGGC
CCCAACCGCAGCACAGTCAGCCGCCCCCGCAGCCACCGGCTGTGACCCCGAGCCAGTAGCCTTGAGCTCTCAA
CATCAGAACCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAG
CCCAGAACCCGGAGCTCACTCCTGGCCAGCCCCAGCGGGCCCAACACCTGCCCGGAAACAATGCACCCAACC
ATCCTTCCCTGCGGAGTATGTGAGGTGCTCCAGGAGCTACAGCGGCTGGAGAGTCGCCTCCAGCCCTTCTTGC
AGCGCTACTACGAGGTTCTGGGTGCTGCTGCCACCACGGACTACAATAACAATCACGAGGGCCGGGAGGAGGATC
AGCGGTTGATCAACTTGGTAGGGGAGAGCCTGCGACTGCTGGGCAACACCTTTGTTGCACTGTCTGACCTGCGCT
GCAATCTGGCCTGCACGCCCCACGACACCTGCATGTGGTCCGGCCTATGTCTCACTACACCACCCCATGGTGC
TCCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACTGTGACCATGACAGGAAATGGGACTCGGCCCC
CCCCAATCCCAATGCAGAGGCACCTCCCCCTGGTCTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATG
TCGAGTCTCAGCTGAGGGGGCTCCCCCGCCAGGTCCAGCTCCCCCGCCAGCCACCAGCCACCCGAGGGTCATCC
GGATTTCCACCAGAGTGTGGAACCCGTGGTCATGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTG
GTGTTCCGAGTGCTCCCACTGGCCCCCTGGGACCCCTGGTCATGGCCAAACCCCTGGGACAGCAGGTGCCAGGCT
TCCCAACAGCTCCAACCCGGGTGGTGATTGCCCGGCCCACTCCTCCACAGGCTCGGCCTTCCCATCCTGGAGGGC
CCCCAGTCTCTGGGACACTGCAGGGCGCCGGTCTGGGTACCAATGCCCTCGTTGGCCAGATGGTGAGCGGCCCTTG
TGGGGCAGCTTCTTATGCAGCCAGTCCTTGTGGCTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCTGCCA
CTGCTTCTGCCAGTGCTGGCACCAACAACAGCTACCACAGCTGGCCCCGCTCCTGGGGGGCCTGCCAGCCTC
CACCCACCCCTCAACCCTCCATGGCTGATCTTCAGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCAGGGC
CAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCACCATCACTGTGGCGATGCCTGGTGTCCCTGCCTTTCTCCAAG
GCATGACTGACTTCTTGAGGCAACACAGACAGCCCTCCACCACCCCACTCCTCCACCCCACTACCTGCC
CAGAGCAGCAGACCATGCCCCACCAGGCTCCCCTTCTGGTGGCGCAGGGAGTCTGGAGGCCTGGGTCTTGAGA
GCCTGTCAACCGAGTTTTTTTACCTCAGTGGTGCAGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGG
CTGGCAGCAGTGAAAGTATTGCTGCCTTCATACAACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCTG
ATGGGGCCCTTGGAATCTTTGGGGCCTTGCTTTCTCTCTGTGCCAGAACTTCTCTATGGTGGACGTAGTGATGC
TTCTCCATGGGCATTTCCAGCCACTACAACGGCTCCAGCCCCAGCTGCGATCCTTCTCCACCAGCACTACCTGG
GTGGTCAGGAGCCACACCCAGTAACATCCGGATGGCAACCCACACATTGATCACGGGGCTAGAAGAGTATGTGC
GGGAGAGTTTTTCTTGGTGCAGGTTTCCAGGAGGTGTGGACATCATCCGGACAAACCTGGAATTTCTCCAAGAGC
AGTTTAATAGCATTGCTGCGCATGTGCTGCATTGCACAGATAGTGGATTGGGGCCCGGTTGCTGGAGTTGTGTA
ACCAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGACAGCAGATGGAGCTTGCTGCTGTTA
TCAATGGCCGAATTCGTCTGATGTCTCGTGGGGTGAATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGAC
TGAGGCTTCAGGTGGTACTGGAGCACATGCCTGTAGGCCCTGATGCCATTCTCAGATACGTTCCGAGGGTTGGTG
ATCCCCCCCAGCCACTTCTGAGGAGCCAATGGAAGTTCAGGGAGCAGAAAGAGCTTCCCCTGAGCCTCAGCGGG
AGAATGCTTCCCCAGCCCCCTGGAACAACAGCAGAAGAGGCCATGTCCCGAGGTCCACCTCCTGCTCCTGAGGGGG
GCTCCCGGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCC
CTATTATCCAGCAGGACATTAGAGCCAGCGGAAGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTG
GTATGCCTGCCAAGAGACGCAAGACGATGCAGGGTGGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGG
CAGCTAAGGCAGCCGGAGCTCGGCCCCCTGACGAGCCCCGAGAGCCTGAGCCGGGACCTGGAGGCACCAGAGGTTT
AGGAGAGCTACAGGCAGCAGCTCCGGTCTGATATACAAAACGACTGCAGGAAGACCCCACTACAGTCCCCAGC

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FIGURE 1977B

GCTTCCCAATGCCCAGCGGGCCTTTGCTGATGATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGAC
CGTTTCCCCCTCTTCCTTCACAGTATTTAAGAAATAAAAGTCGGATTTTCTGGCAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 1978

MEPNDSTSTAVEEPDSLEVLVKTLDSQTRTFIVGAQMNVKEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHNRNANSYVMVGTFNLPDGSADVH
INMEQAPIQSEPRVRLVMAQHMRDIQTLISRMECRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVESEAPPR
EPMEAEVEERAPAQNPELTPGPAPAGTPAPETNAPNHPSPAEYVEVLQELQRLQESRLQPFLLQRYEVLGAAAT
TDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCNLACTPPRHLHVVRPMSHYTTPMVLQQAAPQIPIQINV
GTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSSTNVESAEAGAPPPGPAPPPATSHPRVIRISHQSVEPVVM
MHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGTLQGAGL
GTNASLAQMVSGLVGQLLMQPVLAQGTGPMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQPSMADLQ
FSQLLGNLLGPAGPGAGGSGVASPTITVAMPGVPAFLQGMDFLQATQTAPPPPPPPPPPPPPAPEQQTMPPPGSP
SGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSESIAAFIQRLSGSSNIFEPGADGALGFFGALLS
LLCQNFMSVDVVMLLHGHFQPLQRLQPQLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSLVQVQPG
VDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIRMSRGV
NP SLVSWLTMMGLRLQVVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASAPGTTAE
EAMSRGPPPAPEGGRDEQDGASAETEPWAAAVPPEWVPIIQQDIQSQRKVKPQPPLSDAYLSGMPAKRRKTMQG
EGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFNPQRAFADD
P

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FIGURE 1979A

CCCTAGGCCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC
CAACATACTCAATGAGCTTCCAGCGCAATGTCGATCGCTCGGGGCCGACTGCCAAGGGAAAGGATGGAAAGAAG
TATTCTCGCTCAACCTGTTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTTGCCCTCGC
CATGGCCTGCAGAGTCTCGGGAAAGTTGCCATTGCCCGGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA
GCCGAGAACAAAGGCAATGACCCCAATGTCTCACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAAACAGGAG
CAGTCCGACCCCAAGAGTTCCGATGCCTCAACCGCTCAGCCGCCGGAATCGCAGCCACTGCCGGCTTCACAGACG
CCTGCCTCCAACAGCCGAAACGACCCCCAGCAGCCCCGAGAACAACCTCTTTGGTTCCAAGCGGGGTAAAGTCC
TGGGCACAAGCCAGCGTCACCCATGGAGCACATGGAGATGGTGGAAAGGGCATCAAGCCTACTGTCACGATTCTCT
CGAGAGGAATTTCCGACCCTGCAGGCGGTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG
TCGTCTGGGGCCCGGACCAAGCCTCCGCCCCCAAATTCTACAACCTTGGAGGGACGGAGGTGGGCGTGGCCCTGAT
GAGCTGGAGGGCCCGGACTCCAACTTCATCATGGTCATGATCCCCGGGGTGGGCTACAGCCTTCAGGCCACCC
CAGTTCCCTCCCTACCGCGGAATGATGCCGCCTTTCATGTATCCCCATATCTCCCGTTCCCTCCGCCCTATGGA
CCCCAGGGGCCCTTACCGATACCCCACTCCTGATGGGCCAGCCGTTTTCCCGTGTGGCGGGCCCCCGAGGCTCA
GGGCCACCAATGCGCTTAGTAGAGCCTGTGGGTGCTCCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT
CAGTTGGATCAGGAGAATGATGATGGTTGGGCGAGGGGCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCAACAGCGAACCGCCCACTCCTAAGACGGCC
TGGGCAGAAACCTCTCGGCCTCCAGAGACAGAGCCGGGACCTCTGCCCAAAGCCTCCCTACCCCTGGGGAC
TACCCAGATCGTGGGGTCTCTCCCTGCAAGCCCCCAGCACCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGA
AAGCAGTCGTCTATCTGAGATTTCCCTGGCAGTGGAGCGGGCCCGCGCAAGGCGAGAAGAAGAGGAGCGGCGCATG
CAAGAAGAGCGCGGGCAGCCTGTGCTGAGAAGCTCAAGCGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGG
CTCAAAGCAGAGCCTGCTGCCCCACCTGCTGCCCCCTTCTACCCAGCTCCACCACCTGCAGTCCCTAAAGAACTC
CCTGCACCTCCAGCTCCACCTCCAGCATCAGCCCCAACACCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCCCT
CCTGCCCAATCTACTCTACTCCAGGTGTGGCTGCGGCTCCCACTCTGGTGAGTGGTGGTGGCAGTACCAGTAGC
ACCAGCAGTGGCAGCTTCGAAGCCAGCCCAGTGGAAACCAACTGCCCTCAAAGAGGGTCTGAAACCACAGAA
GAGGTTCTCTCCTACCAACCCCCAGTTCCAAAGGTGGAACCCAAGGGTGATGGGATTGGTCCCACCCGCCAG
CCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAGTCGTGCTCCTCGTTTCCAGCGGCAGCAGCAGGAG
CAGTCTCTGAAGCAGCAGCAGCAGCAGCAGCAGTGGCAGCAGCATCAACAGGGCTCTGCCCCCTCTACCCAGTGCCC
CCATCACCACCACAGCCTGTGACCCTGGGGGCTGTGCCAGCTCCACAGGCTCCACCCCGCCCCCAAGGCCCTG
TACCCAGGTGCTCTGGGCGCGCCCCACCCATGCCCCCAATGAACTTTGATCCCCGATGGATGATGATTCTCTCT
TATGTGGACCCCGGCTCCTCCAGGGTCTGTCCTCTAGACTTCTACCTCTCTGGTGTGCATCCCTCTGGCCTA
GTTCCCCGAGAGCGTTTCAAGCAGTGGGGGCTCAAGCTCAGAGCCATTTGACCGTCATGCACCTGCTATGTTACGG
GAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGGGTAGGAGATGTCTTACCGCCACACCCGCTGAACCC
CGCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAGGATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTA
CCTCCCCACCACCCTATCTGGCCAGTTATCCAGGCTTCTCTGAGAATGGAGCCCCTGGGGCCCCCAATCTCTCGC
TTTCTCTGGAGGAACCAGGGCCCCGTCCACTCCCCTGGCCCCCAGGCAGTGATGAAGTGGCCAAGATACAACT
CCACCACCAAGAAGGAGCCCCCTAAGGAGGAGACTGCACAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCC
CGCGGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCACGCAGAGAGAGTCCGACAGAGACCCGCTGGGGCCCT
CGTCCAGGGAGCAGTCGTCTGGAATCCCTCCAGAGGAGCCAGGGGCCCCACCCCGCGGGCTGGGCCTATAAAG
AAACCTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCCAAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCC
CCAAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTAGGGGGCCCCAAGGAGACCCACCCAATGGAAATCTT
TCCCCTGCCCAAGGCTTCGGAGGGACTATTCTGATGAAAGAGTGGGTCTTACCTCTTGCCGGGGTCTGGGGCCGA
GGCGAGTATTTTGCCAGAGGGAGGGGTTTTCGGGGGACCTATGGGGGACGAGGGCGGGGAGCCCGAAGCCGGGAA
TTCCGCAGTTACCGAGAGTTTCGAGGAGATGATGGGCGTGGAGGTGGGACAGGGGGACCAACCACCTCTGCT
CCCCGAGGCCGCACTGCCAGCGAGACACGGAGCGAGGGTTTCAAGATGAGGAAATCCCCAAGCGGCGCCGGCAG
CGGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGATCTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAAG
GAGGGAACACTACCCAGGTCCCTCTCGCTCCCCACCACCAGGAGCCCCACCTTCACCAGCCCCAGCCGCTTC
ACTGCCCGGGGTGGGCGAGTCTTCACTCCAGAGGGGTGCCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCTT

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FIGURE 1979B

CCTCAAGTTTGCCAGGCTGGAGCCCTCCAGCCAAGTCTCTGGCTCCCAAGAAACCTCCCACAGGCCCTTTGCCA
CCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCAGGGCCTCTGTCCCTGTGGCGCGGAGGCAGCAATGGA
GGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGAAGGAGGCGACATGGGAGGGCTCAGCAGCAGGATAAA
CCGCTCGTTTTCCGGAGGCTGAAGCAGGAACGGGAGAATGCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACC
CTTCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACAACAGTACAGTGGCCCCAGCACCTCGCCGGGCAGCT
GCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAAGCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGT
GACTTCACCAGTGAGCGCCGAGGGGACAAAGAGGCACCCCCACCAGTACTGCTGACACCCAAGGCTGTGGGAACT
CCTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTAGCCATGTCCCGCGGAGATCTGAGCCAGAGAGCCAAG
GATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGCATGGAACGGCAGAATCGGCGCCCTGGCCAGGGGGC
AAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGTGGGGTCTGGAGGAAGGACCGGGGCCAGGACGAGGC
GACAAGAGGAGCTGGCCCTCTCCAAGAACCGAAGTCGTCTCCAGAGGAGCGTCCCCGGGGCTTCCCCTGCCT
CCCCACCTCCCAGCAGTTCTGCTGTCTTCCGCTGGACCAAGTTATCCACAGCAACCCTGCTGGCATCCAACAG
GCTCTGGCCAGCTTAGTAGCCGTCAAGGGAGTGTAACTGCACCAGGGGGTTCATCAAGGCACAAGCCTGGGCCT
CCCCAAGCCCCCTCAGGGCCCCCTCTCCTAGGCCCCCAACCCGATACGAGCCCCAGAGGGTCAACAGCGGCCTCAGT
TCTGACCCCCACTTTGAGGAGCCGGGGCCAATGGTGAGAGGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTT
AGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCCAGAAAACCAGAGCTGCTACAGGAGGAATCTTTGCCACCT
CCTCATAGCTCTGGATTCTTGGGCTCTAAGCCTGAGGGCCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACA
GAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACTGCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATG
GAGCCTTGAGTGGGATTCTCAGGTGTATCAGGTCCCTGCAGCCAGCGAAGTTCCCCTGATGGAGGACTCAAGGGG
GCAGCAGAGGGACCCCCAAGAGGCCTGGAGGCTCCTACCCCTGAATGCTGTTTCTTGTGAGGGTCCACCTGGC
TCTGAACCTCCTAGGAGACCACCTGCCCCCAGCATGGGGACAGAAAGGAGCTGCCCCGGGAGCAGCCTCTG
CCCCCTGGCCCCATTGGCACAGAACGATCACAGCATAACAGCCGAGGCACAGAGCCTGGCCCCATTGCGCCATCC
CATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGACAAGGACTCAGACTTACGCCTAGTGGTAGGAGACAGC
TTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAGGCCATTTCCTGTATCACGAGACTGGGAGCTGCTTCCC
AGTGCTGCTGCCTCTGCTGAGCCACAATCCAAGAACCTGGATTCTGGGCACTGTGTCCCGAGCCCAGCTCCTCA
GGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGTGGGCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATG
GACTCTCAATTACATCCAACAGTGGAGGCTTCCGCCCTGGGACACCCTCACTGCACCCTTACAGATCACAGCCC
CTATACCTACCCCCCGGGCCAGCCCCCTCCCTCAGCACTGCTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGAT
TTCTCCACAATGCAAGCTACAGAGCTGGGGAAGTTGCCGGCTGGAGGAGTTCTCTACCTCCACCTTCCTTCCTC
TACTCTCCGGCTTTCTGCCCCAGTCTTTGCTGACACATCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCCCT
TCGGATTTTTTATTCTACTCCTCTGCAGCCTGGTGGCCAAAGTGGCTTTCTCCCTTCAGGGGCTCCTGCCCAGCAG
ATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTGAACCTTGGCTCCCTGCCGCCAGCACCACCTCCTGCC
CCACCTCCCCCTTTCTCTGTTACCTGTGGGCCCTGCTCTGCAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCT
CCTGCTACTCGGGTGTGCTGCCTTACCTGCCAGGCCCTTCCCCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTG
GAACTAAAGCCGTTCCAGGATTATCAAAAAGTACAGCAGCAACCTTGGGGGACCTGGATCATCACGGAAGTCCCCCA
ACTGGAAGGTCCTTCTCTGGCCTCAATTCCCGTCTCAAGGCCACGCCCTCCACCTACAGTGGAGTCTTCCGCACC
CAGCGCGTCGACCTTTACCAGCAGGCCTCCCCACCAGATGCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACA
GGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAGGAGCCTGGGTCCCGAGGGGACAAGGAGCCTGGGTG
CCCCACCCCGCTGAGGGAGTTCTCTTGGCCCCCTACCCCCGGGGCTTGTATATAGATTATAAATATATAAGGGG
GAAAGGGGTGGGCGGGGAGGGGTTGTGGGGCTGGGGCCTCACTTCCCCTCCTCCCCCTTCCCCTGGTCCCCTGT
CCTGGGGCTGTTTGTAAAAAGAGTAATAAAGGATTT

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FIGURE 1980

MSDRSGPTAKGKDGGKYSSLNLFDTYKGKSLEIQKPAVAPRHGLQSLGKVAIARRMPPPANLPSLKAENKGNPN
VSLVPKDGTDGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVKSWAQASVTHG
AHGDGGRASSLLSRFSREEFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTWDRDGGGRGPDELEGPDSKL
HHGHDPGRGGLQPSGPPQFPFYRGMMPPFMYPPYLFFPPPYGPGQPYRYPTPDGFSRFPFRVAGPRGSGPPMRLVEP
VGRPSILKEDNLKEFDQLDQENDDGWAGAHEEVDYTEKLKFSDEEDGRDSDEEGAEGHRDSQSASGEERPPEADG
KKGNSPNSSEPPTPKTAWAETSRRPETEPGPPAPKPLPPGDYDPRGGPPCKPPAPEDEDEAWRQRRKQSSSEISL
AVERARRRREEEERRMQEERRAACAEKLRLEDEKFGAPDKRLKAEPAPPAAPSTPAPPPAVPKELPAPPAPPPA
SAPTPEKEPEEPAQAPPAQSTPTFGVAAAPTILVSGGGSTSSSTSSGSFEASPVFQLPSKEGPEPPEEVPPPTTPP
VPKVEPKGDGIGPTRQPPSQGLGYPKYQKSLPPRFQRQQEQLLKQQQHQWQQHQQGSAPPTPVPPSPPQPVTL
GAVPAPQAPPPPKALYPGALGRPPPMPPMNFDPWRMMIPPYVDPRLLOGRPPLDFYPPGVHPSGLVPRERSDSG
GSSSEPFDRHAPAMLRERGTTPVDPKLAWVGDFVTATPAEPRPLTSPLRQAADDDKGMRSSETPPVPPPPPYLAS
YPGFPENGAPGPPISRFPLEEPGRPLPWPPGSDEVAKIQTPPKKEPPKEETAQLTGPEAGRKPARGVSGGGQG
PPPPRRSRTETRWGPRPGSSRRGIPPEEPGAPRRAGPIKKPPPTKVEELPPKPLEQGDETPKPPKPDPLKIT
KGKLGPKETPPNGNLSPAPRLRRDYSYERVGPTSCRGRGRGEYFARGRGFRGTYGGRGRGARSREFRSYREFRG
DDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPSDKEAPTKEGTLTQVPL
APPPPGAPPSPAPARFTARGGRVFTPRGVPSTRGRGGGRPPPQVCPGWSPPAKSLAPKKPPTGPLPPSKEPLKEK
LIPGPLSPVARGGSNGGSNVGMEDGERPRRRRHGRAQQQDKPPRFRLKQERENAARGSEGKPSLTLPASAPAPE
EALTTVTVPAPARRAAKSPDLNSQNSDQANEWEASESSDFTSERRGDKEAPPPVLLTPKAVGTPGGGGGGAV
PGISAMSRGDLQRAKDLKRSFSSQRPGRMERQNRPPGPGGKAGSSSGSSSGGGGGGGPGGRTGPRGRDKRSWSPK
NRSRPPEERPPGLPLPPPPSSSAVFRDLQVIHSNPAGIQQALQSSRQGSVTAPGGHPRHKPGPPQAPQGPSP
RPPTRYEPQRVNSGLSSDPHFEEPGPMVRGVGGTPRDSAGVSPFPKRRERPPRKPELLQEESLPPPHSSGFLGS
KPEGPGPQAESRDTGTEALTPHIWNRLHTATSRKSYRPSMEPWMEPLSPFEDVAGTEMSQSDSGVDLSGDSQVS
SGPCSQRSSPDGGLKGAAGPPKRPGGSSPLNAVPCGPPGSEPPRRPPAPHDGDRKELPREQPLPPGP IGT
SQHTDRGTEPGPIRPSHRPGPPVQFGTSDKSDLRVLVGDLSLKAELTASVTEAIPVSRDWELLPSAAASAEPQ
SKNLDSGHCVPEPSSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPNSGGFRPGTPSLHPYRSQPLYLPPGPAP
PSALLSGVALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCPSPLPDTSLLQVRQDLPSPSDFYSTPLQ
PGGQSGFLPSGAPAQOMLLPMVDSQLPVVNFGLPAPPPAPPPPLSLLPVGPALQPPSLAVRPPAPATRVLPSP
ARPPPASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTTGRSFSGLNSRLKATPSTYSGVFRTQVRVDLYQQA
SPPDALRWIPKPWERTGLPPREGPSRRAEPPGSRGDKEPGLPPPR

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FIGURE 1981A

CCCTAGGCCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC
CAACATACTCAATGAGCTTCCAGCGCAATGTCCGATCGCTCGGGGCCGACTGCCAAGGGAAAGGATGGAAAGAAG
TATTCCTCGCTCAACCTGTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTTGCCCTCGC
CATGGCCTGCAGAGTCTCGGGAAAGTTGCCATTGCCCGGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA
GCCGAGAACAAAGGCAATGACCCCAATGTCTCACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAACAGGAG
CAGTCCGACCCCAAGAGTTCCGATGCCTCAACCGCTCAGCCGCCGGAATCGCAGCCACTGCCGGCTTCACAGACG
CCTGCCTCCAACCAGCCGAAACGACCCCCAGCAGCCCCGAGAACACTCCTTTGGTTCCAAGCGGGGTAAAGTCC
TGGGCACAAGCCAGCGTCACCCATGGAGCACATGGAGATGGTGAAGGGCATCAAGCCTACTGTCACGATTCTCT
CGAGAGGAATTTCCGACCCTGCAGGCGGTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG
TCGTCTGGGGCCCGGACCAAGCCTCCGCCCCCAAATTCTACAACCTTGAGGGACGGAGGTGGGCGTGGCCCTGAT
GAGCTGGAGGGCCCGGACTCCAACTTCATCATGGTCATGATCCCCGGGGTGGGCTACAGCCTTCAGGCCACCC
CAGTTCCCTCCCTACCGCGGAATGATGCCGCTTTCATGTATCCCCATATCTCCCGTTCCCTCCGCCCTATGGA
CCCCAGGGGCCCTTACCGATACCCCACTCCTGATGGGGCCAGCGTTCCTCCCGTGTGGCGGGCCCCCGAGGCTCA
GGGCCACCAATGCGCTTAGTAGAGCCTGTGGGTGCTCCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT
CAGTTGGATCAGGAGAATGATGATGGTTGGGCAGGGGCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCAACAGCGAACCGCCCACTCCTAAGACGGCC
TGGGCAGAAACCTCTCGGCCTCCAGAGACAGAGCCGGGACCTCCTGCCCAAAGCCTCCCTACCCCCACCTCAC
CGGGGCCCGCGCGGAAGTGGGGCCCCCTGGGGACTACCCAGATCGTGGGGGTCTCCCTGCAAGCCCCCAGCA
CCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGAAAGCAGTCTCATCTGAGATTTCCCTGGCAGTGGAGCGG
GCCCCGCGACGCGGAGAAGAAGAGGAGCGGCGCATGCAAGAAGAGCGCCGGGCAGCCTGTGCTGAGAAGCTCAAG
CGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGGCTCAAAGCAGAGCCTGCTGCCCCACCTGCTGCCCTTCT
ACCCAGCTCCACCACCTGCAGTCCCTAAAGAACTCCCTGCACCTCCAGCTCCACCTCCAGCATCAGCCCCAACA
CCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCCCTCTGCCAATCTACTCCTACTCCAGGTGTGGCTGCGGCT
CCCCTCTGGTGAGTGGTGGTGGCAGTACCAGTAGCACCAGCAGTGGCAGCTTCGAAGCCAGCCCACTGGAACCA
CAACTGCCCTCAAAGAGGGTCTGAACCACCAGAAGAGGTTCTCTCCTACCACACCCCCAGTTCCAAAGGTG
GAACCCAAGGGTGATGGGATTGGTCCCACCCGCCAGCCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAG
TCGTTGCTCTCTCGTTTCCAGCGGCAGCAGCAGGAGCAGCTCCTGAAGCAGCAGCAGCAGCAGCAGTGGCAGCAG
CATCAACAGGGCTCTGCCCTCTACCCCACTGCCCCCATCACCACACAGCCTGTGACCTGGGGGTGTGCCA
GCTCCACAGGCTCCACCCCCGCCCCCAAGGCCCTGTACCCAGGTGCTCTGGGCGGGCCCCCACCATGCCCCCA
ATGAACTTTGATCCCCGATGGATGATGATTCTCTCTTATGTGGACCCCCGGCTCCTCCAGGGTCTGTCCTCTTA
GACTTCTACCCTCCTGGTGTGCATCCCTCTGGCCTAGTTCCCCGAGAGCGTTCAGACAGTGGGGGTCAAGCTCA
GAGCCATTGACCGTCATGCACCTGCTATGTTACGGGAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGG
GTAGGAGATGTCTTACCGCCACACCGCTGAACCCCGCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAG
GATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTACCTCCCCACCACCTATCTGGCCAGTTATCCAGGCTTT
CCTGAGAATGGAGCCCCTGGGCCCCCAATCTCTCGCTTCTCTGAGGAACCAGGGCCCCCTCACTCCCCTGG
CCCCAGGCAGTGATGAAGTGGCCAAGATACAACTCCACCACCAAGAAGGAGCCCCCTAAGGAGGAGACTGCA
CAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCCCGCGGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCA
CGCAGAGAGATCGCACAGAGACCCGCTGGGGCCCTCGTCCAGGGAGCAGTCTGCTGGAATCCCTCCAGAGGAG
CCAGGGGCCCAACCCGCGGGGTGGGCCTATAAAGAAACCTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCC
AAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCCCCAAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTA
GGGGGCCCAAGGAGACCCCACTTGAATCTTTCCCTGCCCAAGGCTTCGGAGGGACTATTCTGATGAA
AGAGTGGGTCTTACCTCTTGCCGGGGTGGGGCCGAGGCGAGTATTTGCCAGAGGGAGGGGTTTTCGGGGGACC
TATGGGGGACGAGGGCGGGGAGCCCGAAGCCGGGAATTCCGCAATTACCGAGAGTTTCGAGGAGATGATGGGCGT
GGAGGTGGGACAGGGGGACCAACCACCTCCTGCTCCCCGAGGCCGCACTGCCAGCGAGACACGGAGCGAGGGT
TCAGAGTATGAGGAAATCCCCAAGCGGCGCCGGCAGCGGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGAT
CTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAGGAGGGAACACTCACCAGGTCCCTCTCGCTCCCCACCA
CCAGGAGCCCCACCTTCACCAGCCCCAGCCGCTTCACTGCCCGGGGTGGGCGAGTCTTCACTCCCAGAGGGGTG

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FIGURE 1981B

CCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCCCTCCTCAAGTTTGTCCAGGCTGGAGCCCTCCAGCCAAGTCT
CTGGCTCCCAAGAAACCTCCACAGGCCCTTTGCCACCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCCAGGG
CCTCTGTCCCTGTGGCGCGCGGAGGCAGCAATGGAGGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGA
AGGAGGCGACATGGGAGGGCTCAGCAGCAGGATAAACC GCCTCGTTTCCGGAGGCTGAAGCAGGAACGGGAGAAT
GCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACCTTCCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACA
ACAGTCACAGTGGCCCCAGCACCTCGCCGGGCAGCTGCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAA
GCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGTGACTTCACCAGTGAGCGCCGAGGGGACAAAGAGGCACCC
CCACCAGTACTGCTGACACCCAAGGCTGTGGGAACTCCTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTCA
GCCATGTCCCGCGGAGATCTGAGCCAGAGAGCCAAGGATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGC
ATGGAACGGCAGAAATCGGCGCCCTGGCCCAGGGGGCAAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGT
GGGGGTCTTGAGGAAGGACCGGGCCAGGACGAGGCGACAAGAGGAGCTGGCCCTCTCCCAAGAACC GAAGTCGT
CCTCCAGAGGAGCGTCCCCGGGGCTTCCCCTGCCTCCCCACCTCCCAGCAGTTCTGCTGTCTTCCGCCTGGAC
CAAGTTATCCACAGCAACCCTGCTGGCATCCAACAGGCTCTGGCCCAGCTTAGTAGCCGTCAAGGGAGTGTA
GCACAGGGGGTTCATCCAAGGCACAAGCCTGGGCCTCCCCAAGCCCCCTCAGGGCCCCCTCTCCTAGGCCCCCAACC
CGATACGAGCCCCAGAGGGTCAACAGCGGCCTCAGTTCTGACCCCCACTTTGAGGAGCCGGGGCCAATGGTGAGA
GGGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTTAGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCAGA
AAACCAGAGCTGCTACAGGAGGAATCTTTGCCACCTCCTCATAGCTCTGGATTCTTGGGCTCTAAGCCTGAGGGC
CCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACAGAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACT
GCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATGGAGCCTTGGATGGAGCCCCCTGAGTCTTTTGAGGATGTG
GCTGGCACAGAAATGAGTCAGTCTGACAGTGGGGTGGACCTGAGTGGGGATTCTCAGGTGTCTCAGGTCCCTGC
AGCCAGCGAAGTTCCCTGATGGAGGACTCAAGGGGGCAGCAGAGGGACCCCCAAGAGGCCTGGAGGCTCCTCA
CCCCTGAATGCTGTTCTTGTGAGGGTCCACCTGGCTCTGAACCTCCTAGGAGACCACCACCTGCCCCCCACGAT
GGGGACAGAAAGGAGCTGCCCCGGGAGCAGCCTCTGCCCCCTGGCCCCATTGGCACAGAACGATCACAGCATACA
GACCGAGGCACAGAGCCTGGCCCCATTGCGCCATCCCATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGAC
AAGGACTCAGACTTACGCCTAGTGGTAGGAGACAGCTTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAG
GCCATTCTGTATCACGAGACTGGGAGCTGCTTCCAGTGCTGCTGCCTCTGCTGAGCCACAATCCAAGAACCTG
GATTCTGGGCACTGTGTCCCGGAGCCCAGCTCCTCAGGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGTCT
GGGCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATGGACTCTCAATTACATCCAAACAGTGGAGGCTTCCGCCCT
GGGACACCCCTCACTGCACCCCTTACAGATCACAGCCCCATACCTACCCCCGGGCCAGCCCCCTCCCTCAGCACTG
CTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGATTCTCCACAATGCAAGCTACAGAGCTGGGGAAAGTTGCCG
GCTGGAGGAGTTCTCTACCCCTCCACCTTCCTTCTCTACTCTCCGGCTTTCTGCCCCAGTCTTTGCTGACACA
TCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCCCTCGGATTTTATTCTACTCCTCTGCAGCCTGGTGGCCAA
AGTGGCTTTCTCCCTTACAGGGCTCCTGCCCAGCAGATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTG
AACTTTGGCTCCCTGCCGCCAGCACCTCCTGCCCCACCTCCCTTTCTCTGTTACCTGTGGGCCCTGCTCTG
CAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCTCCTGCTACTCGGGTGCTGCCTTACCTGCCAGGCCCTTC
CCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTGGAATAAAGCCGTTCCAGGATTATCAAAAAGTGAAGCAGC
AACCTTGGGGGACCTGGATCATCACGGACTCCCCCAACTGGAAGGTCCTTCTCTGGCCTCAATTCCCGTCTCAAG
GCCACGCCTTCCACCTACAGTGGAGTCTTCCGCACCCAGCGCTCGACCTTTACCAGCAGGCCTCCCCACCAGAT
GCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACAGGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAG
GAGCCTGGGTCCCAGGGGACAAGGAGCCTGGGTGCCCCCACCCCGCTGAGGGAGTTCTCTTGGCCCCCTACCC
CCGGGGCTTGTATATAGATTATAAATATATAAGGGGGAAAGGGGTGGGCGGGGAGGGGTTGTGGGGCTGGGGCT
CACTTCCCCCTCCTCCCCCTTCCCCTGGTCCCCTGTCCCTGGGGCTGTTTGTAAAAAAGAGTAATAAAAGGATTT

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FIGURE 1982

MSDRSGPTAKGKDGGKYSSLNLFDTYKGKSLEIQKPAVAPRHGLQSLGKVAIARRMPPPPANLP SLKAENKGNDPN
VSLVPKDG TGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVKSWAQASVTHG
AHGDDGRASSLLSRFSREEFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTW RDGGGRGPDELEGPD SKL
HHGHDP RGGGLQPSGPPQFPFYRGMMPPFMYPYLPFPFPYGPQGPYRYPTPDGFSRFPRVAGPRGSGPPMRLVEP
VGRPSILKEDNLKEFDQLDQENDDGWAGAHEEVDYTEKLKFSDEEDGRDSDEEGAEGHRDSQSASGEERPPEADG
KKGNSPENSEPPTPKTAWAETS RPPETEPGPPAPKPPLPPPHRGPPAGNWGPPGDY PDRGGPPCKPPAPEDEDEAWR
QRRKQSSSEISLAVERARRRREERREERMQEERRAACAEKLKRLDEKFGAPDKRLKAEPAA PPAAPSTPAPPPAVP
KELPAPPAPPPASAPTPEKEPEEPAQAPPAQSTPTPGVAAAPT LVSGGGSTSSSTSGSFEASVPEPQLPSKEGPE
PPEEVPPPTTPPVPKVEPKGDGIGPTRQPPSQGLGYPKYQKSLP PRFQRQQEQQLLKQQQHQWQQHQQSAPPT
PVPPSPFPQVTLGAVPAPQAPPPPKALYPGALGRPPPMPPMNFDP RWMMI PPYVDPRL LQGRPPLDFYPPGVHP
SGLVPRERSDSGGSSSEPFDRHAPAMLRERGTTPVDPKLAWVGDVFTATPAEPRPLTSPLRQA ADEDDKGM RSET
PPVPPPPPYLASYPGFPENGAGPPI SRFPLEEPGRPLPWPPGSDEVAKIQTPPPKKEPPKEETAQLTGPEAGR
KPARGVSGGGQGP PPRRRTETRWGPRPGSSRRGIPPEEPGAPPRRAGP IKKPPPTKVEELPPKPLEQGD ET
PKPPKPDPLKITKGKLGPKETTPNGNLS PAPRLRRDYSYERVGPTSCRGGRGEYFARGRGFRGT YGGRGRGAR
SREFRSYREFRGDDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPSDKEAP
TPKEGTLTQVPLAPPPPGAPPSPAPARFTARGGRVFTPRGVPSRRGRGGGRPPPVQCPGWSPPAKSLAPKKPPTG
PLPPSKEPLKEKLIPGPLSPVARGGSNGGSGNVGMDGERPRRRRHGRAQQQDKPPRFRR LKQERENAARGSEGKP
SLTLPASAPAPEEALTTVTVPAPRRAAAKSPDLSNQNSDQANEWE TASESSDFTSERRGDKEAPPPVLLTPKA
VGTPGGGGGGAVPGISAMSRGDL SQRAKDLSKRSFSSQRPGMERQNRPGPGGKAGSSGSSSGGGGGGGPGGRTGP
GRGDKRSWPSPKNRSRPPEERPPGLPLPPPPSSSAVFRLDQVIHSNPAGIQQAL AQLSSRQGSVTAPGGHPRHK
PGPPQAPQGPSRPPTRYEPQRVNSGLSSDPHFEEPGPMVRGVGGT PRDSAGVSPFPKRRERPPRKPELLQEES
LPPPHSSGFLGSKPEGPGPQAESRDTGTEALTPHIWNRLHTATSRKSYRPS SMEPWMEPLSPFEDVAGTEMSQSD
SGVDLSGDSQVSSGPCSQRSSPDGGLKGAAGPPKRPGGSSPLNAVPC EGPPGSEPPRRPPPA PHDGDRKELPRE
QPLPPGPIGTERSQHTDRGTEPGPIRPSHRPGPPVQFGTSDKSDSLRLVVGDSLKAEKELTASVTEAIPVSRDWE
LLPSAAASAEPQSKNLD SGHCVPEPSSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPNSGGFRPGT PSLHPYR
SQPLYLP PGPAPP SALLSGVALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCPSPLPDTSL LQVRQDL
PSPSDFYSTPLQPGGQSGLPSGAPAQMLLP MVDSQLPVVNFGSLPPAPP PAPPPLSLLPVGPALQPPSLAVRP
PPAPATRVLPSPARPPASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTTGRSFSGLNSRLKATPSTYSGV
FRTQRVDLYQQASPPDALRWIPKP WERTGLPPREGPSRRAEEP GSRGDKEFGLPPPR

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FIGURE 1983

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGGTACTTGGGGGGGCGGGGGCAGGTCTGATGAGT
AACCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCACTGCACCGGGCCTGTGCCCGCCACGAT
GCCCCTGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCACCAGGACCGCCATGGGGACACGGCACTG
CATGCTGCTGCCCCGCCAGGGCCCAGATGCCTACACCGATTTCCTTCCCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAA
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA
GATCGCCTGGCCCCGGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCTGTGACCCCCA
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC
AGGGCCCGGGCCAGGGAAGAGCACCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCCTGCAGCGATTCCGAAGC
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCA
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG
TAAGGGAAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCC
ACATCTC

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FIGURE 1984

ACAGGCATTTTCCAAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTCCGGTCCCTTG
CGCCTGCGCTCTTGCAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT
TCCCTCCTTCGTCGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGTTATCGGCAGAGAACGATGTGGACAAT
GAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCCTGCCAAGAAG
GATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGCTTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGG
GCCATTGTGCGACTGTGGCTTTGAGCATCCGTGAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATG
GATGTCTGTGCCAGGCCAAGTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAG
CCAGTTACTGGGCAGGTGTCTGTGCTGGTGTGTGTGTCACACTCGGGAGTTGGCTTTTCAGATCAGCAAGGAATAT
GAGCGCTTCTCTAAATACATGCCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAA
GAGGTGCTGAAGAAGAAGTCCCCGCATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAG
AGCCTCAACCTCAAACACATTAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGT
CGGGATGTCCAGGAAATTTTTCGCATGACCCCCACGAGAAGCAGGTCATGATGTTCAGTGCTACCTTGAGCAAA
GAGATCCGTCCAGTCTGCCGCAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACG
CTGCATGGGTTGCAGCAGTACTACGTGAACTGAAGGACAACGAGAAGAACCAGGAGCTCTTTGACCTTCTGGAT
GTCCTTGAGTTCAACCAGGTGGTGTATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCCAGCTACTAGTG
GAGCAGAACTTCCCAGCCATTGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTT
AAAGATTTTCAACGACGAATTCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATT
GCTTTTAATTATGACATGCCTGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACC
AAGGGCTTGGCTATCACATTTGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAG
GTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTAGAAGACTCGCCCA
TTTTGGAAATGTGACCGTCTGTCTTTCAGGAGAGGACACCAGGGTGGGGGTGAAGGAGACACTACTGCCCCACCC
CTGACAGCCCCACCCCATGGCTTCCATCTTTTGCATCACCACCCTCCTGAACCCCCATTTCTGATTTGTCAGA
ATTTTTTTTTTAACAAAATAAAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1985

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFLLKPELLRAIVDCGFEHPSEVQHEC
IPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYPNVKVAVFFG
GLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDEC DKMLEQLDMRRDVQEIFRMPHEKQVM
MFSATLSKEIRPVCRKFMQDPMEIFVDDETKLTTLHGLQQYYVKLKDNEKNRKLFDLLDVLEFNQVVIFVKSVCRC
IALAQLLVEQNFPAAIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIAFN YDMPEDSDTYLHRV
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDISSYIEQTR

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FIGURE 1986

ACAGGCATTTTCCAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTG
CGCCTGCGCTCTTGACAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT
TCCCTCCTTCGTGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGCTCTTCTGTTAGAAATAGTATCTTTG
TTTTCTTTGCTGTTCTCAATCCCCTACTCTTCACCCCTTGTTTTACCTATTTTGCAGAGAACCCATCCAGATC
CCCCTTCCCTTCTTCCCCCTGCCGGCCCCAGTTATGGCAGAGAACGATGTGGACAATGAGCTCTTGACTATGAAGA
TGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCTGCCAAGAAGGATGTCAAGGGCTCCTATGT
CTCCATCCACAGCTCTGGCTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGGGCCATTGTGACTGTGGCTT
TGAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATGGATGTCTGTGCCAGGCCAA
GTCGGGCATGGGAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAGCCAGTTACTGGGCAGGTGTC
TGTGCTGGTGATGTGTACACTCGGGAGTTGGCTTTTTCAGATCAGCAAGGAATATGAGCGCTTCTCTAAATACAT
GCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAAGAGGTGCTGAAGAAGAACTG
CCCGCATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAGAGCCTCAACCTCAAACACAT
TAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGTCGGGATGTCCAGGAAATTTT
TCGCATGACCCCCACGAGAAGCAGGTCATGATGTTTCAGTGCTACCTTGAGCAAAGAGATCCGTCCAGTCTGCCG
CAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACGCTGCATGGGTTGCAGCAGTA
CTACGTGAAACTGAAGGACAACGAGAAGAACCGGAAGCTCTTGACCTTCTGGATGTCCTTGAGTTCAACCAGGT
GGTGATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCCAGCTACTAGTGGAGCAGAACTTCCCAGCCAT
TGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTCTCGGTATCAGCAGTTTAAAGATTTTCAACGACGAAT
TCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATTGCTTTTAATTATGACATGCC
TGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACCAAGGGCTTGGCTATCACATT
TGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAGGTCAATATTAGTGAGCTGCC
TGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTATGAAGACTCGCCCATTTTGAATGTGACCGTCTG
TCCTTCAGGAGAGGACACCAGGGTGGGGTGAAGGAGACACTACTGCCCCACCCCTGACAGCCCCACCCCATG
GCTTCCATCTTTTGCATCACCACCACTCCTGAACCCCCATTTCTGATTTGTCAGAATTTTTTTTTTAACAAACTA
AAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1987

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFLLKPELLRAIVDCGFEHPSEVQHEC
IPQAILGMDVLCQAKSGMGKTAVFVLATLQOLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYPNVKVAVFFG
GLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDEC DKMLEQLDMRRDVQE IFRMTPHEKQVM
MFSATLSKEIRPVCRKFMQDPMEIFVDDETKLT LHGLQYYVKLKDNEKNRKLFDLLDVLEFNQVVIFVKS VQRC
IALAQLLVEQNFP AIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNI AFNYDMPEDSDTYLHRV
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDISSYIEQTR

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FIGURE 1988

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC
CTGGGCGGGCTCCCACTCCATGAGGTATTTGACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCAT
CTCAGTGGGCTACGTGGACGACACGCAGTTCGTGAGGTTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG
GGCGCCGTGGATAGAGCAGGAGGGGGCCGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGAC
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATAACCAGTACGCCTACGACGGCAAGGATTA
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGA
GGCGGCCCGTGTGGCGGAGCAGGACAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGA
GAACGGGAAGGACACGCTGGAGCGCGCGGACCCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA
GGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGT
GGTGCCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTCACCCCTGAG
ATGGGAGCCGTCTTCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCTAGCAGTTGTGGT
CATCGGAGCTGTGGTCGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC
TGCGTGCAGCGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGC
ACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCCTGTGTCCACTGTGA
CCCCTGTTCCCATGCTGACCTGTGTTTCTCCCCAG

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FIGURE 1989

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVG YVDDTQFVRFDSDAASPREEPRAPW
IEQEGPEYWDRNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCVEWLRRYLENGKDTLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTEL VETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWE P
SSQSTVPIVGIVAGLAVLAVV VIGAVVA AVMCRRKSSGGKGGSYSQAACSDSAQGS DVSLTA

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FIGURE 1990

GCGTGATGTCTCACAGAAAGTTCTCCACTCCCAGACATGGGTCCCTCGGCTTCCTGCCTTGGAAGCGCAGCAGCA
GGCATTGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT
ACAAGGCTGGCATGACCCACATCGTGCGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCCCTCCAAGT
TTGGCCATGGCCACTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCACTCAAGAAAGACCGAATTGCAA
AGGAAGAAGGAGCTTAATGCTGGGAACAGATATTGCAACTGGTGGGATCTCAATAAAAGTTATTTTCCA

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FIGURE 1991

MSHRKFSTPRHGSLGFLPWKRSSRHCGKVKSF PKDDPSKPVHLTAFLGYKAGMTHIVRALEKIDLK FIDTPSKFG
HGHFQTMEEKKAFMGPLKKDRIAKEEGA

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FIGURE 1992

ATTCTCCCCAGAGGCCGAGATGCGGGTCATGGCGCCCCGAGCCCTCCTCCTGCTGCTCTCGGGAGGCCCTGGCCCT
GACCGAGACCTGGGCCTGCTCCCACTCCATGAGGTATTTGACACCGCCGTGTCCCGGCCCCGGCCGCGGAGAGCC
CCGCTTCATCTCAGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGTCCGAGAGG
GGAGCCGCGGGCGCCGTGGGTGGAGCAGGAGGGGCCGGAGTATTGGGACCGGGAGACACAGAAGTACAAGCGCCA
GGCACAGGCTGACCGAGTGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGACGGGTCTCACACCCT
CCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCGCGGGTATGACCAGTCCGCCTACGACGG
CAAGGATTACATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACCGCGGCTCAGATCACCCAGCG
CAAGTTGGAGGCGGCCCGTGC GGCGGAGCAGCTGAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAG
ATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCGCAGAACCCCCAAAGACACACGTGACCCACCACCCCTCTC
TGACCATGAGGCCACCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGA
TGGGGAGGACCAGACCCAGGACACCGAGCTTGTGGAGACCAGGCCAGCAGGAGATGGAACCTTCCAGAAGTGGGC
AGCTGTGGTGGTGCCTTCTGGACAAGAGCAGAGATACACGTGCCATATGCAGCACGAGGGGCTGCAAGAGCCCT
CACCTGAGCTGGGAGCCATCTTCCAGCCCACCATCCCCATCATGGGCATCGTTGCTGGCCTGGCTGTCCTGGT
TGTCTAGCTGTCTTGGAGCTGTGGTCACCGCTATGATGTGTAGGAGGAAGAGCTCAGGGCATTCTTCCAC
AGGTGGAAGAGGAGGGAGCTGCTCTCAGGCTGCGTGCAGCAACAGTGCCAGGGCTCTGATGAGTCTCTCATCAC
TTGTAAAGCCTGAGACAGCTGCCTGTGTGGGACTGAGATGCAGGATTTCTTCACACCTCTCCTTTGTGACTTCAA
GAGCCTCTGGCATCTCTTCTGCAAAGGCGTCTGAATGTGTCTGCGTTCTGTAGCATAATGTGAGGAGGTGGA
GAGACAGCCCACCCCGTGTCCACCGTGACCCCTGTCCCCACACTGACCTGTGTTCCCTCCCCGATCATCTTTCC
TGTTCCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAATTCATGGTGCAGTGAAGTCTTACT
TCCCTAATGAAGTTAAGAACCTGAATATAAATTTGTGTTCTCAAATATTTGCTATGAAGCGTTGATGGATTAATT
AAATAAGTCAATTCCTAGAAGTGGAGAGGCAATAAAGACCTGAGAACCTTCCAG

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FIGURE 1993

MRVMAPRALLLLLSGGLALTETWACSHSMRYFDTAVSRPGRGEPRFISVGIVDDTQFVRFDSDAASPRGEPRAPW
VEQEGPEYWDRETQNYKRQAQADRVSLRNLRGYYNQSEDSHTLQRMYGCDLGPDGRLLRGYDQSAIDGKDYIAL
NEDLRSWTAADTAAQITQRKLEAARAAEQRLRAYLEGTCVEWLRRYLENGKETLQRAEPPKTHVTHHPLSDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTVELVETRPAGDGTQKWAAVVVP SGQEQRYTCHMQHEGLQEPLTLSWEP
SSQPTIPIMGIVAGLAVLVVLAVLGAVVTAMMCRRKSSGHFLPTGGKGGSCSQAACSN SAQGSDESLITCKA

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FIGURE 1994

GGAAAGGTGTACGCAGGCGCAGTGGCGTCTAAATTTGGGCCCCACTAAATGCGTCGGAGCATCTCCGCGCCCAGGC
GGCTCCTCCTCACTGCGGCAACCCGGGAAAACTTGTGAACTAATCAGAAAAAGTGAAGGCGGGGAGATCTTGGGG
CGCTGTCCAATGGCGCGGAAGAGAACAAATGAGCTGGCCAATCGGGAACGGCACGGGGGCGGGCTCGCTCGGCGC
GAAGTTCGGGCCCCGGAATTCCGAAGGAGGGGTAGGCGCTGCCCGCGCGCAGAGGCCGCGCCCCCTCTGGCCCCG
GCTTCTTGGCTGTCAAACAGATGCAGCAACGTCCGCTCCTGCCGAGGAGCCCAAGGGGTCCCGGGATCCGCCGCA
CAGGCTGGCACTGCTTGAAGAGGAGGCTACTCGGAGACTGCGCCGCGCGGGTAGATCCGAAACGGGGCTGGGGCG
GAGTGGGAAAAGGCCGGGTATGCCTTGATGATCGCGGGGAGCTCCTTCTGTTTTTATCCACCTAGAGAAGCC
GGGAAGTAGGGGTTTAGGTCCAATTTGTTGGAGTACTTAAGGACTCGTTTGCACCTTTCTTTGGGGGATGACAGT
GGATTCAATTGCCCTCGGAGGTTCAACCAGTTATGAGTGAGGGATTGGCCAGAAGATCGGGGCGCAGGCAAGCAGG
AGTGCTCTATTAGGATAAGCAAGTTTGACAGGAAGAAGCTGCTCTTCTCCGAATTACACAGAGGTGATGTGTTTCG
TATTGCACGTAGACGTGTGTATAACAGGACCTCCTTCCCCGCGCCCCGCCACCCCGACACACACAGGAGCTGCCT
AAAGTATCCTTGCCTTGACAGATTGGAGGCTCCCCAAATATTTTGTGATCTGAGGATCCAGCTCAAGTGAGGTGCC
ATAGGACGTGTTCTGAGTTTGCATTGCACGGAGACCTTCTGGAATTTTTCATTTGCAAGTCGGCTTAACCAAT
TTTGCAATTGAGTCTAGGCTGCTTGCACCTCTGAATTTGGGCTATTAGGTAGTGTGCTCAAAGTTGAAACCGCAT
ACAGCACAACCTCAAGTTTGCATCAGACTGGGAAGCGAACTTAAGCCAGCGGTGCGTGGCCCAGGAGTGGGAAAGG
AAATGGATGCCTGAAGTGAAGAGGTGGTGCAGAGGGGGCACC GCCCATGCTGCCCTGCTTCCAAGTCTGCGCA
TAGGGGGCGGCAGGGGCGGTGATCTCTACACCTTCCACCCCCCGCGGGGCTGGCTGCACCTATCGCTTGGGCC
ACAGGGCCGACCTGTGTGATGTGGCCCTGCGGCCCCAGCAGGAGCCTGGCCTCATCTCTGGGATCCACGCCGAAC
TGCATGCCGAGCCCCGGGGTGTGACTGGAGGGTCAGCCTGGAAGACCACAGCAGCCAAGGTGAGCATTAAAGCAG
GGCAGCTTTGCCCTGGGTGGTTGAAGCGCCAGGCTGGAATGAGTAAGGTCTCCACAAGACCCTGCTGCCTGCCT
CCCATACTCCCATCAGATTGGATGGATAGTCGTGGTCCAGACCTTCATCTTCCCACCAGAAGTGTGCACAGTCAG
AAGCTCTCTGCCAGACTGACCCTTTTTGGTCCCGTTAGCTCATAACAGGACCTGGGATATCATCAGAAAGATATC
ACAGTGGGGATGTTCTGAGGCCACTAGAGGCCAAGTTTAGACTTGATTAGTTTCCAGCTTTGCTGAGGCACCTCT
GTTCTGGGTTAGGGCAGTTCTATGTTGAATAATGTTTTTAATAATCTGGGCATGTCTTTCTCCGTGACTTGAGG
CAGTTAGCCTCAGAAAGCCTAGATTACATTTGAGTTTTGCCACTGCCTCTTGGTAAAGTCAGCTGTAGGAGTGT
TATGGTTATTAGACTATAGTAGCCAACATTCATCTAGTGCTTACTGTTATGAGCCAGGCCCTATTTTAAGTGTAT
TGAATGTAGGTGGTACTAATATTATCCTCATTTACAGTAAAGGAAAAATGAGGCACAAAGAGGTTAAGGAACCTGT
CCAGGGCTGGGCATGGTGGTTTACACCTATAATCCAGCACTTTGGGAGGCTAAGGCAGGGTGGATCACTTGAGCT
CAGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAAACCTGTCTCTACCAAAAAATTAATTAATTTTTTAAAAAA
AGCCTGGGCGCGGTGGCTCAGCCTGTAATCCAGCACTTTGGGAGGCCGAGATGGGCAGATCACGAGGTCAGGA
GTTTCGAGACCATCCTGACCAACATGTTGAAACCCCATCTGTGCTGAAAAAAAATACAAAATTAGCCAGGTGTG
GTGGCGTGCACCTGTAACCCAGCTACTCAGGAGGCTGAAGCAGCAGAAATCACTTGAACCCGGGAGGCGGAGGTT
GCAGTGAGCTGAGATCGCACCCTGCACTCCAGCTTGGGCGACAGAGCGAGACTCCATCTCAAACAAACAAACAA
ACCAAAAAGCTTGCCAGGGTCACATAACTGGTAAGTGGTAGAGCTAGGATCTGAACGAGCTGGAGCTGGGGGAGA
GTGAGCATGTTTGAACCTGGACCTTAGGGCGGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC
TGAGGCGGGCAGATCAGGAGGTAGGAGTATGAGACCAGCCTGGCCAACATGGTAAACCCCTGTCTCTGCTAAAA
ATAAAAAAATTAGCCAGACGTGGTGGCACATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGC
TTGAACCTGGGAGGCGGTTCAAGCTTGGGCAATAGAGCAAAACTCCATC

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FIGURE 1995

TTGGTGGATTCCCTCAGTCCCTGCCGCCGCGGGGCGCCCTGGGATAGCGGCGGGGCTCCTGAACAGATCTCGGCC
CCTTTCCAAACACTCCTGATGCCTCATTTCGCTCTCGCTTCTTTTCGACCACCATTTCGGGGGCTGAGGCACTCA
CGGGGCTCCCCAGGTTTCACTCCGTTTCTACACAGTCGGAGCCCCATGGATCTCCCATCTCCCGGAGGAACCGT
GAAGCCAAACAGAAGCGCTGCGAGAGAAGCAGGCTACTCTGGAGGCTGAGATAGCAGGGGAGAGCAAGTCACCT
GCAGAAATCCATTAAGGCTGGAGGCCTAAGGAGTTAGTATTGTATGAAATCCCTACGAAACCCGGTGAAAAGAAA
GATGTCTCTGGGCCCCTGCTCCTGCATACAGCCCCGATATGTTGAGGCTGCCTGGTACCCGTGGTGGGTACGA
GAGGGCTTCTTCAAACCAGAATATCAGGCCCGGCTGCCCAAGCTACAGGGGAGACCTTTTCCATGTGTATCCCA
CCTCCCAATGTCACTGGCTCCCTGCACATTGGCCACGCACTCACGGTGGCCATACAGGATGCCCTCGTGCGCTGG
CACCGGATGCGTGGGGATCAAGTGCTGTGGGTCCCTGGTTTCAGATCATGCAGGAATTGCTACACAAGCTGTGGTG
GAGAAACAACCTGTGGAAGGAACGGGGAGTGAGGAGACATGAGCTGAGCCGGGAGGCCTTCCTTAGGGAGGTGTGG
CAGTGGAAGGAGGCGAAAGGTGGAGAGATCTGTGAGCAGCTGCGAGCTCTGGGTGCCTCCCTGGACTGGGATCGA
GAGTGTTTTACCATGGATGTTGGCTCCTCAGTGGCTGTGACTGAAGCTTTTGTGCGGCTCTACAAGGCGGGGTTG
CTGTACCGGAACCATCAGCTTGTCAACTGGTCATGTGCTTTAAGATCAGCCATCTCGGACATTGAGGTGGAGAAC
CGGCCCCCTGCCTGGCCACACACAGCTTCGACTGCCTGGCTGCCCAACCCCGTGTCTTTTGGCCTCCTATTTTCT
GTTGCCCTTCCCGTGGATGGAGAGCCTGATGCAGAGGTTGTGGTAGGAACCACAAGGCCAGAGACGCTGCCTGGA
GATGTGGCTGTGGCCGTTTCATCCAGACGACTCGCGATACACACATCTACACGGGCGACAGCTTCGTACCCCTTG
ATGGGGCAGCCTCTTCCCTCATCACAGACTATGCTGTTTCAGCCACATGTGGGCACGGGGGACGTGAAGGTGACT
CCAGCTCACAGTCTGCCGATGCTGAGATGGGGGCCGACATGGCTTGAGCCCCCTGAATGTCTATTGCGGAGGAT
GGGACCATGACCTCCCTCTGCGGGGACTGGCTGCAGGGTCTTACCGGTTTGTGGCCCGGGAAAAGATAATGTCT
GTGCTGAGTGAATGGGGCCTGTTCCGGGGCTCCAGAACCACCCCATGGTACTGCCCATCTGCAGCCGTTCTGGG
GATGTGATAGAATACCTGCTGAAGAACCAGTGGTTTGTCCGCTGCCAGGAAATGGGGGCCGAGCTGCCAAGGCT
GTGGAGTCGGGGGCCCTGGAGCTCAGTCCCTCCTTCCACCAGAAGAACTGGCAGCACTGGTTTTCCCATATTGGG
GACTGGTGTGTCTCCCGGACAGCTGTGGTGGGGCCATCAGATTCCAGCCTACCTGGTTGTAGAGGACCATGCGCAG
GGAGAAGAGGACTGTTGGGTGGTTGGGCGGTGAGAGGCTGAGGCCAGAGAGGTAGCAGCGGAACTGACAGGGAGG
CCAGGGGCAGAGCTGACCCTGGAGAGGGATCCTGATGTCCTAGACACATGGTTTTCTTCTGCCCTGTTCCCTTT
TCTGCCCTGGGCTGGCCCCAAGAGACCCACAGACCTTGCTCGTTTTCTACCCCTGTCACTTTTGGAACGGGCAGC
GACCTTCTGCTGTTCTGGGTGGGCCGATGGTTCATGTTGGGGACCCAGCTCACAGGGCAGCTGCCCTTCAGCAAG
GTGCTTCTTCATCCCATGGTTTCGGGACAGGCAGGGCCGGAAGATGAGCAAGTCCCTGGGGAATGTGCTGGACCCA
AGAGACATCATCAGTGGGGTGGAGATGCAGGTGCTGCAGGAAAAGCTGAGAAGCGGAAATTTGGACCCTGCAGAG
CTGGCCATTGTGGCTGCAGCACAGAAAAAGGACTTTCTCACGGGATCCCTGAGTGTGGGACAGATGCCCTGAGA
TTCACACTCTGCTCCCATGGAGTTTCAGGCGGGCGACTTGCACCTGTGAGTCTCTGAGGTCCAGAGCTGCCGACAT
TTCTGCAACAAGATCTGGAATGCTCTTCGCTTTATCCTCAATGCTTTAGGGGAGAAATTTGTGCCACAGCCTGCT
GAGGAGCTGTCTCCCTCCTCCCGATGGATGCCTGGATCCTGAGCCGCTTGCCCTGGCTGCCAGGAGTGTGAG
CGGGGCTTCTCACCCGAGAGCTCTCGCTCGTCACTCATGCCCTGCACCACTTCTGGCTTCAACACCTCTGTGAC
GTCTACCTGGAGGCTGTGAAGCCCGTGTGTGGCACTGCCCCGCCCCCTGGGGCCCCCTCAGGTCCGTGTTCTCC
TGCGCTGACCTCGGCCCTCCGCCCTCCTGGCCCCACTGATGCCCTTCTGGCTGAAGAGCTCTGGCAGAGGCTGCC
CCAGGCCTGGTTGCCCCCTGCCCCAGCATCTCGGTTGCCCCCTACCCAGCGCCTGCAGCTTGGAGCACTGG
CGCCAGCCAGAGCTGGAGCGGCGCTTCTCCCGGTCCAAGAGGTGCTGCAGGTGCTAAGGGCTCTCCGAGCCACG
TACCAGCTCACAAAGCCCGGCCCCGAGTGCTGCTGCAGAGCTCAGAGCCTGGGGACCAGGGCCTCTTCGAGGCC
TTCTTGGAGCCCCCTGGGACCCCTGGGCTACTGTGGGGCTGTGGGCCTGTTACCCCCAGGCGCAGCAGCTCCCTCC
GGCTGGGCCCAGGCTCCACTCAGTGACACGGCTCAAGTCTACATGGAGCTGCAGGGCCTGGTGAGCCCGCAGATC
CAGCTACCTCTGTTAGCCGCCCCGAAGGTACAAGTTGCAGAAGCAGCTTGACAGCCTCACAGCCAGGACCCCATCA
GAAGGGGAGGCAGGACTCAGAGGCAACAAAAGCTTTCTTCCCTCCAGCTGGAATTGTCAAAACTGGACAAGGCA
GCCTCTCACCTCCGGCAGCTGATGGATGAGCCTCCAGCCCCAGGGAGCCCGAGCTCTAACTCATCATCCCCATC
AGTTTTCTCCCTCTCAGACCTGTCTTTGAGGACAAACAGATTTGTGAGCTGTGAGGGTGCAGTGGGACGTCAGA
GACTATGTGGTCCATCGCCTTCAATTGTGTAATGAGGACACAGACTGGCTTGGTGCAGTACTGTGGTGTCTT
GAGATGCTCACATTACTGCCCCGCTGCCTCCCACTGGAAGTCTGGGAATGAGGAGATTGAGATAAACTTTTGA
AATCCC

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FIGURE 1996

MGQPLPLITDYAVQPHVGTGAVKVTPAHSPADAEMGARHGLSPLNVIAEDGTMTSLCGDWLQGLHRFVAREKIMS
VLSEWGLFRGLQNHMPVLPICSRSGDVIEYLLKNQWFVRCQEMGARAACAVESGALELSPSFHQKNWQHWFSHIG
DWCVSRQLWWGHQIPAYLVVEDHAQGEEDCWVVGSRSEAEAREVAAELTGRPGAELTLERDPDVLDTWFSSALFPF
SALGWPQETPDLARFYPLSILETGSDLLLFVWGRMVMLGTQLTGQLPF SKVLLHPMVRDRQGRKMSKSLGNVLDP
RDIISGVEMQVLQEKLRSGNLDPAELAIVAAAQKKDFPHGIPEC GTDALRFTLC SHGVQAGDLHLSVSEVQSCRH
FCNKIWNALRFILNALGEKFVPQPAEELSPSSPMDAWILSRLALAAQECERGFLTRELSLVTHALHHFWLHNLCD
VYLEAVKPVWLWHSRPLGPPQVLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPSISVAPYPSACSLEHW
RQPELERRFSRVQEVVQVLRALRATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTLGYCGAVGLLPPGAAAPS
GWAQAPLSDTAQVYMELQGLVDPQIQPLLAARRYKLQKQLDSL TARTPSEGEAGTQRQQLSSLQLELSKLDKA
ASHLRQLMDEPPAPGSPEL

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FIGURE 1997

TCCCATCTTTTCCTCGCATTTTTTTACCATCTTTCCCTCAATCTCCAGGAGCCAATGCGAGACTTTTGGCTCCGA
TTAAGCGACGGCCCCGAGACTTGGGGTGCGCGAGGAGGATCGACAGAGTGGTGATGGAGAGCACCCCTTCAAGGGG
ACTGAACCGAGTACACCTACAATGCAGGAATCTGCAGGAATTCTTAGGGGGCCTGAGCCCTGGGGTATTGGACCG
ATTGTATGGGCACCCTGCCACATGTCTGGCTGTCTTCAGGGAGCTCCCATCCTTGGCTAAGAACTGGGTGATGCG
GATGCTCTTTCTGGAGCAGCCTTTGCCACAGGCTGCTGTAGCTCTGTGGGTAAAGAAGGAATTCAGCAAGGCTCA
GGAGGAAAGTACAGGGCTGCTGAGCGGCCTCCGGATCTGGCACACCCAGCTGCTCCCAGGCGGGCTCCAGGGCCT
CATCCTCAACCCCATTTTCCGCCAGAACCCTCCGCATTGCCCTTCTGGGTGGGGGAAGGCCTGGTCTGATGACAC
AAGTCAGCTGGGACCAGACAAGCATGCCCGGGACGTTCCCTCCCTTGACAAGTACGCCGAGGAGCGATGGGAGGT
GGTCTTGCACTTCATGGTGGGCTCCCCAGTGCAGCTGTGAGCCAGGACTTGGCTCAGCTCCTCAGCCAGGCTGG
GCTCATGAAGAGTACTGAACCTGGAGAGCCGCCCTGCATTACTTCCGCTGGCTTCCAGTTCCTGTTGCTGGACAC
CCCGGCTCAGCTCTGGTACTTTATGTTGCAGTATTTGCAGACAGCCCAGAGCCGGGGCATGGACCTGGTAGAGAT
TCTCTCCTTCCTCTTCCAGCTCAGCTTCTCTACTCTGGGCAAGGATTACTCTGTGGAAGGTATGAGTGATTCTCT
GTTGAACTTCCTGCAACATCTGCGTGAGTTTGGGCTTGTTTTCCAGAGGAAGAGGAAATCTCGGCGTTACTACCC
CACACGCCCTGGCCATCAATCTCTCATCAGGTGTCTCTGGAGCTGGGGGCACTGTGCATCAGCCAGGTTTCATTGT
CGTGGAAACCAATTACCGACTGTATGCCTACACGGAGTCGGAGCTGCAGATTGCCCTCATTGCCCTCTTCTCTGA
GATGCTCTATCGGTTCCCCAACATGGTGGTGGCGCAGGTGACCCGGGAGAGTGTGCAGCAGGCAATCGCCAGTGG
CATCACAGCCCAGCAGATAATCCATTTCCCTAAGGACAAGAGCCCACCCAGTGATGCTCAAACAGACACCTGTGCT
GCCCCCACCATCACCGACCAGATCCGGCTCTGGGAGCTGGAAAGGGACAGACTCCGGTTCACTGAGGGTGTCTCT
GTATAACCAGTTCCTGTGCAAGTGGACTTTGAGCTGCTGCTGGCCCACGCGCGGGAGCTGGGCGTGCTCGTGTT
CGAGAACTCGGCCAAGCGGCTCATGGTGGTGACCCGGCCGGGCACAGCGACGTCAAGCGCTTTTGGAAGCGGCA
GAAACATAGCTCCCTGAGAGCGCGGGACTTGGACACGGACCTCGGCGGGCGGGACTGGGCGGGGCGGGGCATCAGA
ACTCAGGTGTTTTTTATTTACGCGTCAGGGCTTTTCTTGTTTAATAAGTTATGATAGCT

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FIGURE 1998

MESTPSRGLNRVHLQCRNLQEFLGGLSPGVLDRLYGHPATCLAVFRELP
SLAKNWVMRMLFLEQPLPQAAVALWV
KKEFSKAQEESTGLLSGLRIWHTQLLPGGLOGLILNPIFRQNLRIALLGGGKAWSDDTSQ
LGPDKHARDVPSLDK
YAEERWEVVLHFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQFLLLDTPAQLWYF
MLQYLQTAQS
RGMDLVEILSFLFQLSFSSTLGKDYSVEGMSDSLNLFLQHLREFGLVFQRKRKSRRYYPT
RLAINLSSGVSGAGGT
VHQPGFIVVETNYRLYAYTESELQIALIALFSEMLYRFPNMVVAQVTRESVQQAIASGIT
AQQIIHFLRTRAHPV
MLKQTPVLPPTITDQIRLWELERDRLRFTEGVLYNQFLSQVDFELL LAHARELGVLV
FENSAKRLMVVTPAGHSD
VKRFWKRQKHSS

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FIGURE 1999A

TTAGGAAGTTATTTAACTGATCTCTGCCCTAGTTTCTTCATGTGTTAAATATGGATAGTAATAGTATCTACCTTA
TGAAGTGACTGTGAAGATAAAATTATGGATTCTGTTTAAAGGGTTTAGGCCAGTGTCTGGCACAGGGGAAGCATT
TAAAAATATAGCTGATGCTGTTAAACAATGACTGTTGTTGTTGTTTACTGTTATTATCCCCAAAGCGGCCATT
CTGTCTGTTGCTGTCAGCTATGACTCAGTCCCCTGATTAACTTACGCACCACCCATTTTATCCCCTGCAGAGATG
CTGCCCCACCCCCCTTAGGCCCCGAGGGATCAGGAGCTATGGGACCAGAGGCCCTGTCATCTTTACTGCTGCTGCT
CTTGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCA
GGACCGGACCATCCCAGACAGTGACATCTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAG
GTTGGAGAGCAGTGACGGGGATGGGGCCTGGTGCCCCGAGGGTCGGTGTTTCCCAAGGAGGAGGAGTACTTGCA
GGTGGATCTACAACGACTGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGGCTGGGCAAGGA
GTTCTCCCGGAGCTACCGGCTGCGTTACTCCCGGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCA
GGAGGTGATCTCAGGCAATGAGGACCCTGAGGGAGTGGTGCTGAAGGACCTGGGCCCCCATGGTTGCCCGACT
GGTTCGCTTCTACCCCCGGGCTGACCGGGTCATGAGCGTCTGTCTGCGGGTAGAGCTCTATGGCTGCCTCTGGAG
GGATGGACTCCTGTCTTACACCGCCCCGTGGGGCAGACAATGTATTTATCTGAGGCCGTGTACCTCAACGACTC
CACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGTCTGGGCCAGCTGGCAGATGGTGTGGTGGGGCT
GGATGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTATGACTATGTGGGATGGAGCAACCACAGCTT
CTCCAGTGGCTATGTGGAGATGGAGTTTGAGTTTGACCGCTGAGGGCCTTCCAGGCTATGCAGGTCCTACTGTAA
CAACATGCACACGCTGGGAGCCCGTCTGCCTGGCGGGGTGGAATGTCGCTTCCGGCGTGGCCCTGCCATGGCCTG
GGAGGGGGAGCCCATGCGCCACAACCTAGGGGGCAACCTGGGGGACCCAGAGCCCGGGCTGTCTCAGTGCCCT
TGGCGGGCGTGTGGCTCGCTTTCTGCAGTGCCGCTTCTCTTTGCGGGGCCCTGGTTACTCTTTCAGCGAAATCTC
CTTCATCTCTGATGTGGTGAACAATTCTCTCCGGCACTGGGAGGCACCTTCCCGCCAGCCCCCTGGTGGCCGCC
TGGCCACCTCCACCAACTTCAGCAGCTTGGAGCTGGAGCCCAGAGGCCAGCAGCCCGTGGCCAAGGCCGAGGG
GAGCCCGACCGCCATCCTCATCGGCTGCCTGGTGGCCATCATCCTGCTCCTGCTGCTCATCATTGCCCTCATGCT
CTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACGGTTCACCT
CTCTGTCCCTGGGGACACTATCCTCATCAACAACCGCCCAGGTCTAGAGAGCCACCCCGTACCAGGAGCCCCG
GCCTCGTGGGAATCCGCCCCACTCCGCTCCCTGTGTCCCAATGGCTCTGCGTTGCTGCTCTCCAATCCAGCCTA
CCGCTCCTTCTGGCCACTTACGCCCCGTCCCCCTCGAGGGCCCGGGCCCCCACACCCGCTGGGCCAAACCCAC
CAACACCCAGGCCTACAGTGGGGACTATATGGAGCCTGAGAAGCCAGGCGCCCCGCTTCTGCCCCACCTCCCCA
GAACAGCGTCCCCCATTATGCCGAGGCTGACATTGTTACCCTGCAGGGCGTCACCGGGGGCAACACCTATGCTGT
GCCTGCACTGCCCCCAGGGGCAGTCGGGGATGGGCCCCCCAGAGTGGATTTCCTCGATCTCGACTCCGCTTCAA
GGAGAAGCTTGGCGAGGGCCAGTTTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCT
TGATTTCCCCCTTAATGTGCGTAAGGGACACCCTTTGCTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCA
GAATGCCAGGAATGATTTCTGAAAGAGGTGAAGATCATGTCGAGGCTCAAGGACCCAAACATCATTGGCTGCT
GGGCGTGTGTGTGACAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGCGACCTCAACCAGTTCCT
CAGTGCCCAACAGCTGGAGGACAAGGCAGCCGAGGGGGCCCCCTGGGGACGGGCAGGCTGCGCAGGGGGCCACCAT
CAGCTACCCAATGCTGCTGCATGTGGCAGCCAGATCGCCTCCGGCATGCGCTATCTGGCCACACTCAACTTTGT
ACATCGGGACCTGGCCACGCGGAAGTGCCTAGTTGGGGAAAATTTACCATCAAAATCGCAGACTTTGGCATGAG
CCGGAACCTCTATGCTGGGGACTATTACCGTGTGCAGGGCCGGGCAGTGTGCCCATCCGCTGGATGGCCTGGGA
GTGCATCCTCATGGGGAAGTTACGACTGCGAGTGACGTGTGGGCCTTTGGTGTGACCTGTGGGAGGTGCTGAT
GCTCTGTAGGGCCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTATCGAGAACGCGGGGGAGTTCTTCCGGGA
CCAGGGCCGGCAGGTGTACCTGTCCCGGCCGCTGCCTGCCCGCAGGGCCTATATGAGCTGATGCTTCGGTGTCTG
GAGCCGGGAGTCTGAGCAGCGACACCCCTTTTCCAGCTGCATCGGTTTCTGGCAGAGGATGCACTCAACACGGT
GTGAATCACACATCCAGCTGCCCCCTCCCTCAGGGAGCGATCCAGGGGAAGCCAGTGACACTAAACAAGAGGACA
CAATGGCACCTCTGCCCTTCCCTCCCGACAGCCCATCACCTCTAATAGAGGCAGTGAGACTGCAGGTGGGCTGG
GCCACCCAGGGAGCTGATGCCCTTCTCCCTTCTGGACACACTCTCATGTCCCTTCTGTCTTCTTCTTCTTCT
AGAAGCCCCTGTGCGCCACCCAGCTGGTCTGTGGATGGGATCCTCTCCACCCTCCTCTAGCCATCCCTTGGGGA
AGGGTGGGGAGAAATATAGGATAGACACTGGACATGGCCATTGGAGCACCTGGGCCCCACTGGACAACACTGAT
TCTGGAGAGGTGGCTGCGCCCCCAGCTTCTCTCTCCCTGTACACACTGGACCCCACTGGCTGAGAATCTGGGG
GTGAGGAGGACAAGAAGGAGAGGAAAATGTTTCTTGTGCCTGCTCCTGTACTTGTCTCAGCTTGGGCTTCTTC

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FIGURE 1999B

CTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCAGTCACCCCCACTTCCCACTTGC
AGTCTTGTAGCTAGAACTTCTCTAAGCCTATACGTTTCTGTGGAGTAAATATTGGGATTGGGGGGAAAGAGGGAG
CAACGGCCCATAGCCTTGGGGTTGGACATCTCTAGTGTAGCTGCCACATTGATTTTCTATAATCACTTGGGGTT
TGTACATTTTGGGGGGAGAGACACAGATTTTACACTAATATATGGACCTAGCTTGAGGCAATTTAATCCCCT
GCACTAGGCAGGTAATAATAAGGTTGAGTTTTCCAC

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FIGURE 2000

CGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCT
TGCCCCATACATACCTTGAGGCGAGCAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGG
TCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGCTGT
CTTCCGTGGTCGGATGTCCATGAAGGAGGTTCGATGAGCAGATGCTTAACGTGCAGAACAAAGAACAGCAGCTACTT
TGTGGAATGGATCCCCAACAAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCAC
CTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCG
GAAGGCCTTCCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAA
CGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCGA
AGAGGAGGCCCTAAGGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCCTT
TCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTGTTTTTGTGTTTTTCTTCTGGGGGGGGTCTAGAACAG
TGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTGTTGTTGAATGCTCTCCTCTCTCTTCCACTCTGGGAAACC
TAGGTTTCTGCCATTCTGG

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FIGURE 2001

MMAACDPRHGRYLTVAAVFHGRISMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSSA
IQELFKRILEQFTAMFGRKAFLHWYTGE GMD

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FIGURE 2002

ATGGCCCCTGCACTGCTCCTGATCCCTGCTGCCCTCGCCTCTTTCATCCTGGCCTTTGGCACCGGAGTGGAGTTC
GTGCGCTTTACCTCCCTTCGGCCACTTCTTGGAGGGATCCCGGAGTCTGGTGGTCCGGATGCCCGCCAGGGATGG
CTGGCTGCCCTGCAGGACCGCAGCATCCTTGCCCCCTGGCATGGGATCTGGGGCTCCTGCTTCTATTTGTTGGG
CAGCACAGCCTCATGGCAGCTGAAAGAGTGAAGGCATGGACATCCCGGTACTTTGGGGTCTTCAGAGGTCACTG
TATGTGGCCTGCACTGCCCTGGCCTTGACGCTGGTGTATGCGGTACTGGGAGCCCATACCCAAAGGCCCTGTGTTG
TGGGAGGCTCGGGCTGAGCCATGGGCCACCTGGGTGCCCTCCTCTGCTTTGTGCTCCATGTCATCTCCTGGCTC
CTCATCTTTAGCATCCTTCTCGTCTTTGACTATGCTGAGCTCATGGGCCTCAAACAGGTATACTACCATGTGCTG
GGGCTGGGCGAGCCTCTGGCCCTGAAGTCTCCCCGGGCTCTCAGACTCTTCTCCACCTGCGCCACCCAGTGTGT
GTGGAGCTGCTGACAGTGTGTGGGTGGTGCCTACCCTGGGCACGGACCGTCTCCTCCTTGCTTTCTCCTTACC
CTCTACCTGGGCCTGGCTCACGGGCTTGATCAGCAAGACCTCCGCTACCTCCGGGCCCAGCTACAAAGAAAACCTC
CACCTGCTCTCTCGGCCCCAGGATGGGGAGGCAGAGTGAGGAGCTCACTCTGGTTACAAGCCCTGTTCTTCTCT
CCCGCTGAATTCTAAATCCTTAACATCCAGGCCCTGGCTGCTTCATGCCAGAGGCCCAAATCCATGGACTGAAGG
AGATGCCCTTCTACTACTTGAGACTTTATTCTCTGGGTCCAGCTCCATACCCTAAATTCTGAGTTTCAGCCACT
GAACTCCAAGGTCCACTTCTCACCAGCAAGGAAGAGTGGGGTATGGAAGTCATCTGTCCCTTCACTGTTTAGAGC
ATGACACTCTCCCCCTCAACAGCCTCCTGAGAAGGAAAGGATCTGCCCTGACCACTCCCCCTGGCACTGTTACTTG
CCTCTGCGCCTCAGGGGTCCCCCTTCTGCACCGCTGGCTTCCACTCCAAGAAGGTGGACCAGGGTCTGCAAGTTCA
ACGGTCATAGCTGTCCCTCCAGGCCCAACCTTGCCCTCACTACTCCCGGCCCTAGTCTCTGCACCTCCTTAGGCC
CTGCCTCTGGGCTCAGACCCCAACCTAGTCAAGGGGATTCTCCTGCTCTTAACTCGATGACTTGGGGCTCCCTGC
TCTCCCGAGGAAGATGCTCTGCAGGAAAATAAAAGTCAGCCTTTTTTCTAC

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FIGURE 2003

MAPALLLIPAAALASFILAFGTGVEFVRFTSLRPLLGGIPESGGPDARQGWLAAALQDRSILAPLAWDLGLLLLLFVG
QHSLMAAERVKAWTSRYFGVLQRSLYVACTALALQLVMRYWEP IPKGPVLWEARAEPWATWVPLLCFVLHVISWL
LIFSILLVFDYAELMGLKQVYYHVLGLGEPLALKSPRALRLF SHLRHPVCVELLTVLWVPTLGTDRLLLAFLLT
LYLGLAHGLDQQDLRYLRAQLQRKLHLLSRPQDGEAE

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FIGURE 2004A

AGACAAAGCGGTCGCCGCCCCGCCGCCCCCTGGTCTCTGTCTCCGTCCCTCCTCCTTTGCTGCCTCTTTCCC
TCCCTCCTCTCCCTCCCTCCTCCCTCCCTCCAGTCTCCGATCTCCCTCGGTCCCTCTCTCCTCCTCTTCTCTC
TCTGGACGCCCCGGCTCCTCCGACCCCCCTCCCCGGGGTCCCGCGGCTGTGAGTTGACTGAGGGGCTCAGACT
TGGGGAGTGGGTGTCTCCTCGCCCCGTCTTGTCTCCGTCCCTGGCCCCGACCTTGGCTGTCTCCTCTTTGTGC
CGAGATTGTCTGTGTGCGGCTACAGCGGGGTGGAGACGGCCGGCTCTGTACGGCTTCATGAGAGCGGGGACG
GGGCGCAGGACTTGCAGGCGCCGGGAGAAGAGACATGGAGCCGGCCCTTGGCACTCTGGGGTTCGCGTGGGGCAG
TCGGTGGGGGAGGCAGGCGGTGGTGACAGGACAGGGTGGGGGTGGACGCCAGGGTTCTGGGAACGCGCTGGCAGC
CCTGACGCCCCGGTTCCGAAAGTCTCGGGGTGGGTATTTCCCCGACCCGCTCGGGGGCGGAGTGCAGGGGCGAG
AGGGGTGGGGGTGGGGAGAGGCGTGGCCGAGCGGTGCTGGAAGCGGAGCCGGGACCTTTGGGGCCCGCGCTGA
GACGCGCCCGGTGCTGCGCGCCGCTCCTTTCCCTCTTCCCTGGTTTCCCTTCTCCTCTAGACCTGTTGCTC
TCCGCCCCCTCCTTGCTTCCCCAACACCCCTCAGGTCCCGTTGCTTCTGCTTCTCAGGATTCTTGCTCCTT
CCTTCCCACTAGCCTCCCTGGGGTATCGCTGAGGCAGCTGGCCTGCACCCAGGTTCCCTCACCCTGCCAC
ATTTCTCTCTTCTCCCTCAGGCCAATTTCCTTTTCGCCCTTCTCTCTTTCTCACATCCTAGAGACGGTCTTT
AATACGCATTAACCTGTGCTGCCACATCTGGCTCCTGCCCTCATTGCTTCCAATCCGGACTCTTCTCTCACAT
CACCCCCACACCCCCAATTGGGCTCACAACTTCTTCACTTTTCCATTTCCTCCAGTCTCTGCTTCCGTC
TTTCCCTCTGTCTCATCCTTAGCCCTCTGCCCTGCTTTGTGTCCCACCTCTCCCCCTCCACTTCTCTCCTCC
CACCTCAGTCTCACCCCCGGGTGTCTCACTCTCTGGAGCCTCTCCTTCTGTTCTCTGTCCCCAGTGCTCCT
ACCTCACCCTCAAGACGACCATGGCCACCATCCAGACTGGAAGCTACAGCTGCTAGCCCGCGCCGGCAGGAGG
AGGCGTCCGTTTCGAGGCCGAGAGAAAGCAGAACGGGAGCGCTGTCCAGATGCCAGCCTGGAAACGAGGGCTCC
TGGAGCGCCGCCGGGCCAAGCTTGGGTGTCCCTGGGGAGCCTAGCCCTGTGCTAGGGACTGTAGAGGCTGGAC
CTCCAGACCCGGATGAGTCTGCGGTCTTCTGGAGGCCATCGGGCCAGTGCACCAGAACCGATTCTCCGGCAGG
AGCGGCAGCAGCAGCAGCAACAACCGAGTGAAGAGCTGTAGCAGAGAGAAAGCCTGGGCCTCTGGAGG
CCCCGGAGCGGAGACCCAGCCCTGGGGAGATGCGGGATCAGAGCCCCAAGGGAAGAGAGTCAAGAGAAGAGAGAC
TAAGTCCGAGGGAGACCAGAGAGAGGAGGTGGGGATAGGGGGAGCCCAAGAGTTGAGCCTGAGGCCTCTGGAGG
CTCGGGACTGGAGGCAAGCCCAGGAGAGGTGGGAGACAGGAGCTCCCGACTGTGAGAGGCATGGAAATGGAGGC
TGAGTCTTGAGAACTCCAGAGCGGAGTCTGAGACTAGCAGAGTCTGAGAGCAAAGCCCCAGGAGAAAGAGG
TGGAAGTAGACTGAGCCAGGGGAATCTGCCTACCAGAAAGTTGGGCCTGACAGAGGCCCATAAATGGAGACCTG
ACTCCAGAGAGTCTCAGGAACAGAGTTTGGTACAACCTGGAGGCAACAGAGTGGAGGCTGAGGTCAGGAGAAGAAA
GACAAGACTACTCGGAAGAATGTGGGAGAAAAGAAGAGTGGCCAGTTCCAGGGGTAGCTCCAAAAGAGACTGCAG
AGCTGTCCGAGACCCTGACAAGGGAGGCCCAAGGCAACAGTTCCGAGGAGTGGAGGCAGCAGAGCAGAGGCCTG
TGGAAGATGGCGAGAGGGGCATGAAGCCAACAGAAGGGTGGAAATGGACCCTGAACTCCGGGAAGGCTCGAGAAT
GGACACCCAGGGACATAGAGGCTCAAACCTCAGAACTAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTC
CCGGTGTGGAGGCTGGAGAAGGGGAGGCTGAGAAGGAGGAGGCGGGGGCTCAGGGCAGGCCTCTGAGAGCCCTGC
AGAACTGCTGCTCTGTGCCCCCCCCCTCCACCAGAGGACGCTGGGACTGGAGGCCTGAGACAGCAGGAAGAGG
AAGCAGTGGAGCTCCAGCCCCACCACCAGCCCCCTCTGTCTCCCCACCCCCAGCCCCAACTGCCCCCCAACCTC
CTGGGGATCCCCCTCATGAGCCGCCTGTTCTATGGGGTGAAGGCAGGGCCAGGGGTGGGGGCCCCCGCCGAGTG
GACACACCTTCAACGTCACCCCCGGCGGTCTGTGCCCCCTGCGACCCCAGCCACCCCAACCTCTCCAGCCACAG
TTGATGCTGCACTCCCGGGGGCTGGGAAGAAGCGGTACCCAACCTGCCGAGGAGATCTTGTTCTGGGGGGCTACC
TCCGTCTCAGCCGAGCTGCCTTGCCAAGGGGTCCCCGAAAGACACCACAAACAGCTTAAGATCTCCTTCAGCG
AGACAGCCCTGGAGACCACGTACCAATACCCCTCCGAGAGTTCCGTACTGGAGGAGCTGGGCCCGGAGCCTGAGG
TCCCCAGTGCCCCCAACCCTCCAGCAGCCCAACCCGACGACGAAGAGGATGAGGAAGAGCTGCTGCTGCTGCAGC
CAGAGCTCCAGGGCGGGCTGCGCACCAAGGCCCTGATTGTGGATGAGTCTGCGCGCGGTGACCATCTTCCAACA
TAGGGATATACCTCCCTCCTTCTTATACTGAAGATCCTGGAGCCCGGAAGATTACAGGGCAGACAGACCCTGATA
ATGAGCCTGGCAGGGAAGGGCAACCAACATCTTGTAACCTTGCTTTCCCCACCTGTTTCTGGGGGCAGAGCCAAT
TGCCCAATTTCTACCTAATCCAAAGTCCCTGGTGTGGGTGGGGTTAAACGTGCTGGTGCATCCTAGGTATCCA
AGAGTGAGCGCAAGTCTGAGAAGGGGCACAGAATCCCTGGAGGGTGGAGATGGAGCACCTGCCCCCATGGC
AGGGTACACTCTCCCCACAGCCTTCTCCCCACCATCCCGTGGGGACTCTCGGGATTTAAGCACTCGTCTCTCTG
GGAGGCCAGACCCCACTCCATTTATAGGCACATCTCCTTCATTTCTAGGTCACTGCCCTTTGTTTACAGCTC

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FIGURE 2004B

CTGCCTCCTCCCTTGACCACAGCCTGGTTTACAAATTCCATCAGCTCCCAGCCCCACCTGCCAAAGTCCCAGGTT
TACAAGCCACGCTTACTTGCTGTGTCTGCGTGGAATTCTCTCCTCTGTCCCCTCCAGTCTCCTCATTGGAGTGAC
CTGAAGGTGTGGCTTCCTCCACTTTTTCTCAGTATTACTTTGCCTTAGTTTTCCCCAAGAGGGAAGGCTGGAAC
CTTAACTCTGTACCCCTTGATAGTTATTTAATTCTGTTTCTCCTAGTGGTTCACAATTGAAGTGAATTGAGATGG
TGTCGGGTGGCTAAGGAGACACCTCACCTCTCCTTCCCCATTGTGCCGCCTTTATCAATTGCCTGTTTTGTTTTG
TTTGTTTTTTAACTTTCCATAATAAAATGGAGTTCTCTTC

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FIGURE 2005

MATIPDWKLQLLARRRQEEASVRGREKAERERLSQMPAWKRGLLERRRAKLGLSPGEPSPVLGTVEAGPPDPDES
AVLLEAIGPVHQNRFIQERQQQQQQQORSEELLAERKPGPLEARERRPSPGEMRDQSPKGRESREERLSPRETR
ERRLGIGGAQELSLRPLEARDWRQSPGEVGDRSSRLSEAWKWRLSPGETPERSLRLAESREQSPRRKEVESRLSP
GESAYQKLGLTEAHKWRPDSRESQEQSLVQLEATEWRLRSGEERQDYSEECGRKEEWPVPGVAPKETAESETLT
REAQGNSSAGVEAAEQRPVEDGERGMKPTGWKWTLNSGKAREWTPRDIEAQTKLEPPESAELLESPPGVEAGE
GEAEKEEAGAQQRPLRALQNCSSVPSPLPPEDAGTGGLRQEQEEAVELQPPPPAPLSPPPPAPTAPQPPGDPLMS
RLFYGVKAGPGVGAPRRSGHTFTVNPRRSVPPATPATPTSPATVDAAVPGAGKKRYPTAEIILVLGGYLRLSRSC
LAKGSPERHHKQLKISFSETALETYYQYPSESSVLEELGPEPEVPSAPNPPAAQPDDEEDEEELLLLQPELQGGGL
RTKALIVDESCRR

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FIGURE 2006A

AGGTTTGAATTTTCTCGGAGAAAGACAGGCCGGCCACGAGGAAAACAGAAACAAGCCGCAGCAACATCTAAGCCC
TTGAAAGGATCCTGAGAGAGGGGGGAAAGGGAAAACAGCAGCCACCAGCCCAACCACTTGTGTCTTCTGCCCTT
CCCACCTATCTTGCCACCCACCAGCCCACGCTGCTTGGGACTTGAAATCTGTGGCCGAAGGACCGTCACTACA
TAACTTCAAAAATAATCAACCACCCTCCCTTCCCAAACCACCCAAATCACTCATCCAGCGTTTACTTTTTTGAA
TCCACTCAGAACTTTTTTCTGCGACCCCTCCCTAAATGGAGTTGGGTGGGGGGGAAATGAATACTGAGTTGGC
CTTTATTTTTTAAAAGACTTTTTTGATCCAATGAGGCCCTTAAATAATTGAGTTTTGGGTCTGTTGGTTGTTT
TATTTTTTTTCTCCAAATTTTACCCCTCCCCCTGAGCCCGAGGTGCTGACGTCGAAAAAATTGGATAAA
ACCACCATCATGGGTTCCGGTCCCATAGACCCCAAAGAACTTCTCAAGGGCCTGGACAGCTTCCTTAACCGAGAT
GGGGAAGTCAAAAGTGTGGATGGGATTTCGAAGATCTTCAGTTTGATGAAGGAAGCAGAAAGATGGTGAGTCGA
TGCACCTACTTGAACATTCTCCTGCAGACCCGTTTACCAGAAATATTGGTCAAATTTATTGACGTTGGCGGCTAC
AAACTTCTTAACAATTGGCTGACGATTCAAAGACAACCAACAACATTCCCTCCTCCAGCAAATCTACTGACC
CTGCAGCATCTACCGCTCACTGTAGACCATCTCAAGCAGAACAACACAGCTAACTGGTGAAGCAGCTGAGCAAG
TCAAGTGAGGATGAAGAGCTCCGGAATTTGGCCTCAGTCCTTGTGACGACTGGATGGCTGTCATCCGCTCTCAG
AGCAGTACCCAGCCTGCTGAGAAAGATAAGAAGAAACGTAAAGATGAAGGAAAAAGTCGAATACTTCTGAG
CGACCTTTGACAGAGGTGAAGGCTGAGACCCGGGCTGAGGAGGCCCCAGAGAAGAAGAGGGAGAAGCCCAAGTCT
CTTCGACCACAGCACCCAGTCATGCCAAGTTCCGTTCCACTGGACTAGAGCTGGAGACACCATCCTTGGTGCCT
GTGAAGAAGAATGCCAGCACAGTGGTGGTTTCTGACAAGTACAACCTTAAACCATCCCCCTCAAACGTCAGAGC
AACGTAGCTGCTCCAGGAGATGCCACTCCCCCTGCAGAGAAGAAATACAAGCCACTCAACACAACACCTAATGCC
ACCAAAGAGATCAAAGTGAAGATCATCCCGCCACAGCCTATGGAGGGCCTGGGCTTTCTGGATGCTCTTAATTCA
GCCCCGTGTTCCAGGCATCAAATTAAGAAGAAAAAAGTACTGTCACCTACGGCTGCCAAGCCAAGCCCCCTT
GAAGGGAAAACGAGCACAGAACCAAGCACAGCCAAACCTTCTTCCCCAGAACCAGCACCACCTTCTGAGGCAATG
GACGCAGACCGTCCAGGCACCCCGGTTCCCCCTGTTGAAGTCCCGGAGCTCATGGATACAGCCTCTTTGGAGCCA
GGAGCTCTGGATGCCAAGCCAGTGGAGAGTCTTGGAGATCCTAACCAACTGACCCGAAAGGCAGGAAGAGGAAA
AGTGTGACATGGCTGAGGAAGGCAAACCTGAGAGAATATTTCTATTTTGAATTGGATGAACTGAACGAGTAAAT
GTGAATAAGATCAAGGACTTTGGTGAGGCCGCTAAGCGAGAGATACTGTCAGACCGACATGCATTTGAGACAGCG
CGGCGTCTGAGCCATGATAACATGGAGGAGAAGGTGCCCTGGGTGTGCCCCGGGCCCTGGTTCTGCCCTCACCT
CTGTGACCCCTGGAAGCAATAGTCAGGAGCGATATATCCAGGCTGAGCGGGAGAAGGGAATCCTTCAGGAGCTC
TTCTGAACAAGGAGAGTCTCATGAGCCTGATCCTGAGCCCTACGAGCCCATACCCCTTAACTCATCCCCCTA
GATGAGGAGTGTTCATGGATGAGACTCCGTATGTTGAGACTCTGGAACCTGGGGGGTTCAGGTGGCTCACCTGAT
GGGGCAGGAGGCTCCAAGTTGCCTCCAGTTCTGGCCAATCTTATGGGAAGCATGGGTGCTGGAAAGGGCCCCCAA
GGCCCTGGAGGAGGAGGCATTAATGTCCAAGAGATCCTCACCTCCATCATGGGTAGCCCAAACAGTCATCCTTCA
GAGGAATACTGAAACAACCAGACTATTCCGACAAGATCAAGCAGATGCTGGTGCCACATGGACTCCTAGGCCCT
GGCCCAATAGCCAATGGTTTCCCACAGGGGGTCTGGGGGGCCCCAAGGGCATGCAGCACTTTCCCCCTGGACCT
GGGGGACCTATGCCAGGTCCCCATGGAGGCCCTGGTGGGCCAGTGGGTCCACGTCTTCTGGGTCTCCACCCCT
CCCCGGGGAGGTGATCCCTTCTGGGATGGCCCGGGCGACCTATGCGGGGTGGCCCAATGCGGGGGGTCCAGGA
CCAGGTCTTGACCATAACATAGAGGCCGAGGTGGCCGAGGAGGAAACGAACCTCCTCCTCCTCCTCCTCCATT
CGAGGCGCCAGAGGAGGTGCTCTGGAGGAGGACCCCCAAATGGACGAGGGGGCCCTGGTGGGGGCATGGTTGGA
GGTGGTGGGCATCGTCTCACGAAGGCCCTGGTGGGGGCATGGGCAACAGCAGTGGACATCGTCCCCACGAAGGC
CCTGGCGGTGGCATGGGAAGTGGGCATCGCCCCCATGAAGGCCCTGGTGGTAGCATGGGTGGGGGTGGAGGACAT
CGTCCCCACGAAGGCCCTGGCGGTGGCATCAGTGGTGGCAGTGGCCATCGTCCCCATGAAGGCCCTGGCGGAGGA
ATGGGTGCCGTGGTGGACATCGCCCCACGAAGGCCCTGGCGGAAGCATGGGTGGAAGTGGTGGACATCGTCCC
CATGAAGGCCCTGGACACGGGGGGCCCCATGGCCACCGGCCCTCATGATGTCCCTGGTACCGAGGCCATGACCAT
CGAGGGCCGCCACCTCATGAGCACCGTGGCCATGATGGTCTGGCCACGGGGGAGGGGGCCACCGAGGGCACGAT
GGAGGCCACAGCCATGGAGGAGACATGTCAAACCGCCCTGTCTGCCGACATTTTATGATGAAGGGCAACTGCCGC
TATGAGAACAACCTGTGCCTTCTACCACCGGGTGTCAATGGGCCCCCTGCCCTAGGGACCATTGTGCTGCCCT
GTTACACAACCCCTGTGGACTGCAGCCTCGCTCTTCCACCTGTTATGGCTTCTGTGAGGCCCATTTTCCCTT
TTCCCCAGCTGATGAGGAGCCGGCCCCCTCAGTTCCCACTTGCTTGGGTTCCTGGGGGTTTTCTGATCACTGGTG
CGCATTGATGTACATATTTTCTCCAGTCTGGGGAGGAGAGAGACTGGAAACGTTCTGGACTGCTGAAGAGGAG

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FIGURE 2006B

ACCCAGTTGGCTTCACTTTTTGAGAAGATTGCGCCTGTACCCCAAACCCCTTCCAGTATTACCCTTAATGCTTG
AGAACCCTAAAGCTGGTTATCCTGGCGAACACCCCTACCCTTCTATTGCGGGTCCCCACATGCACACAGAACTCTG
ACACAGGATCAGCTGCACCTTAAGAAATCATCCCAACTAAGTTTATTATTCCTCATGGGGTGGGGAGATGCTGAAA
GGGGTATTGTATATCCCACTGCACTGAGAGGGCTCAATCAGCTGGATTTGAGTTCTGGAACACACATCATCCCCA
CCCCCCCCAGCGTGGGCTCACCATTCTTAGTCCTTTCTCAAGTGGGACCTTCAACTTTCTGTGAACACCCAGT
CTGCGTCCTGGGTCTGCTAGGTTGATGATGGCGAACTCGTATCTGCATCCGGTGCAAGTTTTAGCTGGCAGAGG
TGAGACCGGTGGTGCTGGTCTGCCTTTGCCAACTATAGCCAGTCTGGAGACTTGATAAAATACTTCAGTGAGACC
AGCTTCTCATCAACTTGGGCCCCGGCGTGCTGGGCCTGAAAGTCACACTACATGCACTGCCTTTGGGAGTCAGCTC
ACTCCCTGCTCCCACCTGGAACCTTGCCAGCGTGAAGGAGGCTTCCAGGTACTTCACCCTGTCAACCACCTCTGA
ATCCCCACCAGGCGCCTTCCTGGGTGGATTCAACAAGATGATTTTGCCCTTTCCAGTTCTCTCCTTCACTTTGG
CATCAGTTGTTTTCTATGAAAACAGTGGATTGGTTGGGTTTTGTGCAGGGTCTTGGGTTAGAGCCAAAATGGATT
TGAGGATGAGTATTTTTTTTTTTGGTTTTGTATATTTGTACATTAATAATAAACAGTGGAAGAGAAGCAGCTT

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FIGURE 2007

AACCCAAGCGGGACAAGGACTTTTGGGGGGAGGTCAAAGGGCAGGAAGTTGTGCCTACAGCTGTTACCATAGTAA
CCGAGGACCGGATGTGGCGATCTTGGCGGTGCGACAGTCTCTCTCAGGCCCTCTGGCCCGAGAGCCTGTTGAC
TCTGTGACACACTCTGAGGAGCTGGTTGTGGTGTTCAGCGAGGGAAGAAAAGAGTAATTTTTTCAAAGCATT
TATAGAAACGCAGCAAAGGGAAGGTGTGAGGTTGCCGCCATGCCTGGCAGAACGGAGGGAGGCAGTTGGCTCCGG
AATGCGGCCGCCGAGATGTTCTCCGCAACCTTCCGGAAGTGGAATGGCGGGAGCCTCAGCATTGCTGCCACCG
ACCCCCCGGAAGCGGAAACAGAATCCCCGCGTGCCCTTCTCACTACCTTCCAAATCCCGCTGCAGCCATTGCC
GCAGACACGATGCCGAAACGAAAGAAGCAGAATCATCACCAGCCACCGACACAGCAGAGCCCCGCTGCCCGAG
CGGGAAGAGACTGGAGATGAGGAGGATGGGAGTCCCATCGGACCACCCAGCCTTCTGGGCCCTCCCCCATGGCC
AATGGAACCTGGCGACCCTAAGTCAGCTCTTACAGAGGTCTCCAGGATCAAGGGGACCACTGATTCCACCA
CTGCTGAGTCTCCACCTCTCTTGGGGTAGAGGCCCAATTCGGAGAGGGCTTGGCCCCAGGTCTAGCCCATAT
GGTCGTGGTTGGTGGGGAGTCAATGCAGAACCTCTTTTCCGGGGCCAGGCCATGGGGGTCCACCAGGGGAAGC
TTTCAAGGAACAGAGAAACCCTCGAAGGCTCAAAGCTGGTCTCTTATCAAGAATACCTGCCCGCCCAAGGAT
GACCCCAGGTTATGGAAGACAAATCCGACCGCCCTGTCTGCCGACATTTTGCCAAAAGGGCCACTGTGCATAT
GAGGACCTCTGTGCCTTCTACCATCCAGGCGTCAATGGACCTCTCTGTGAGACTGTGCCTTCCCATCCAGGCTG
GAAGGAGCTCTCTGTGACCTAGCGGCCATTTATTTCTCTGTAGCCCTATGATGGCTACTGTGAGGCTCTTCTAAC
ACCTCAGTCAGTGACACACCCATCCCATCCACCCTTCCCCCGTGTGGGGTCCAGAGTGGTGTGTCATCACTGG
TGCGCGGCATACGCGCTTCTTCTGATCCAGCCTGTAGAGACTCGCCTTGGGACCCATCTTTGCTTCCCTTCAG
TTGCCTCCTGGATCTTCTTTCCCGTCATCAAATGACTGCTGAACAGGAAACCTCTTTGGTGCTGTTTCTTGTGCA
TCTGTCCACCTGTTCCCCAGTATTGCCCTCAATTCCTGAGAGCCCTGGAGCGGTTTCTACCATTCCCTTCTTTT
AGCTGCTTGTTTTAAAGTCCTTTTTATGTGACATTCCCTACCCCCAATGTTGTGCTGCTTGTGAACTCAGCCA
GGTTGTCTAACCTGGGGTCAAGTTTGGGTGACTGGTGCAGAGTTACTTCTTAAAGGCCACTCTCCCTGCCTTTG
GATTTCATAGTTTCTCTGTGCTAGCATGATCCCCACCGCTATGGTCTATCTATGATCACCCTGCTTTGTGAAAC
TGTGCATCCCTTGTAGCCTTCTCAGTGTCCGTGGCATTTTTGTGACTTCCAGCACTAGAATAAGTTTTCCTG
CCAAAATGAGTGAGGCGCTTGGTGCCCTCTGGACTTCCCACTTCCCAACATGGGAGAATTGTGAACCTTCCATC
AGACTGCCTCCCTGGCCCTCCCCATTCTTCTCCTGTTGGTTATTCTGAGTCTGACACAGACCCATGACATGTCTT
ATAAAGCCTCCAATGGCTTTATCCTACCTAGATCCCTTCCAGCCCATTTAATTAGACTATGTCATTGTGAGGCC
ACCAGTCCATTCAATTTGAATCTGTGAATCTCCACCTTGCCCTATCTTTGGGTAGAAGCTGGACAGTACTGTTGCC
CTCTTCCAATCCTCTTCCCTACATCCCTGGCACTGGTTGTTTCTGTGAAAACAGCAGTGAACAGGTTTCAAGTTT
TGAAGTGGCCCTGAGGAAATGGGTGAGGAGTTGTATTGGCAAGAGGGAGGGGTGAGAGCTGTTGGAGAACTGAGA
ATGAGGTTTTTTTTTTTTTTTTTAACTTTTTTATATTAGTAATAAATGCAGTGGAACACAGCATTTTAT
TTAAAAAAA

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FIGURE 2008

MPGRTEGGSWLRNAAAADVLRNLPEVEWREPOHCCPPTPRKRKQNPVRVPLPHYPPNPAAAIAADTMPKRKKQNH
QPFTQQQPPLPEREETGDEEDGSPIGPPSLLGPPPMANGKPGDPKSALHRGPPGSRGPLIPPLLSLPPPPWGRGP
IRRGLGPRSSPYGRGWWGVNAEPPFPGP GHGGPTRGSFHKEQRNPRRLKSWSLIKNTCPPKDDPQVMEDKSDRPV
CRHFAKKGHCRYEDLCAFYHPGVNGPPL

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FIGURE 2009

GGGAGCTCGGCGGAGGGCGGGCCAGGTGACTGGTCCGGGCCATGCCGAGGAAGAAGCCATTTCAGCGTGAAGCAGA
AGAAGAAGCAGTTGCAGGACAAACGGGAGCGGAAGAGAGGGCTTCAAGATGGGCTGCGCTCCAGTTCCAACAGCC
GCAGCGGGAGCCGGGAGCGGCGAGAGGAACAGACCGACACCTCGGACGGGGAGTCTGTGACCCATCATATCCGCA
GGCTTAACCAGCAGCCTTCTCAGGGGCTGGGTCCACGAGGCTACGACCCAAATCGATACCGACTGCATTTTGAGA
GAGACAGCAGGGAGGAGGTAGAGAGGAGAAAGAGAGCAGCCCGGGAGCAAGTTCTACAGCCGGTCAGTGCTGAGT
TGTTGGAGCTGGACATCCGGGAGGTGTATCAGCCTGGCTCAGTTCTGGACTTTCCTCGACGTCCTCCTTGGAGCT
ATGAGATGTCCAAGGAGCAACTAATGAGCCAAGAGGAACGGAGCTTCCAAGACTATCTTGGGAAGATTTCATGGGG
CTTACTCCTCTGAGAACTCAGCTACTTTGAGCACAACTCTGGAGACATGGAGGCAGCTGTGGCGGGTGTAGAGA
TGTCTGACATCGTCCTGCTTATCACTGATATCCGACATCCAGTTGTGAATTTCCCGCCAGCACTTTATGAGTATG
TGAAGTGGAGAACTTGGACTGGCCCTGGTGTGGTTTTGAACAAGGTGGATCTGGCCCCGCCAGCTCTTGTGGTTG
CCTGGAAGCATTATTTCCATCAACACTATCCCCAGCTCCACGTCGTCTTTTACCTCTTTTCTCGGGACCCCC
GCACCCACAGGATCCTAGTAGTGTCTTGAAGAAGAGTCGGAGGCGGGGGAGAGGATGGACTCGGGCCCTGGGGC
CAGAGCAGTTGCTGAGAGCCTGTGAAGCCATCACTGTGGGGAAAGTGGACTTGAGCAGCTGGCGGGAGAAGATTG
CTCGGGATGTGGCTGGGGCCACCTGGGGTAATGGCTCTGGGGAGGAGGAGGAAGAGGAGGATGGCCAGCAGTCC
TGGTGGAGCAGCAGACTGATTAGCAATGGAGCCAACCTGGCCCCAACCCAAGAGCGCTACAAGGATGGGGTGGTGA
CCATCGGCTGTGTGGGTTTCCCTAATGTGGGAAAGTCCTCGCTGATCAATGGGCTGGTGGGGCGGAAAGTCGTGA
GTGTCTCCAGAACCCCGGGCCATACCCGATACTTTAGACCTACTTTCTTACCCCTCTGTGAAGCTCTGTGACT
GCCCAGGCCTCATCTTCCCACTCTTCTGCTTAGGCAGTTGCAGGTTCTGGCAGGGATCTACCCTATCGCCAGA
TCCAGGAGCCCTACACTGCTGTGGGCTACCTGGCCTCCCGAATTCCCGTGCAGGCCCTGCTCCACCTGCGCCACC
CAGAGGCTGAGGACCCCTCAGCGGAACACCCCTGGTGTGCCTGGGACATCTGTGAAGCCTGGGCAGAGAAACGTG
GTTACAAGACAGCCAAGGCGGCTCGGAATGATGTGTACAGAGCAGCCAACAGTCTCTTGGGCTGGCAGTGGACG
GCCGCTCAGCCTGTGTTTTTCATCCCCAGGCTACAGTGAACAGAAAGGCACCTGGGAGTCCCATCCAGAGACCA
CGGAGCTGGTGGTTTTTGAGGGCAGGGTGGGGCCAGCAGGTGACGAGGAGGAGGAGGAAGAGGAAGAGCTGAGCA
GCTCCTGTGAGGAGGAGGGAGAGGAGGACCGGGATGCGGATGAGGAGGGAGAAGGGGATGAGGAGACCCCAACCT
CGGCTCCAGGGTCCAGCCTGGCTGGCCGAAACCCCTTATGCCCTGCTGGGTGAGGATGAGTGCTGAGTTCTCGCC
CAGCGCCATCTTCCCTCCAGTATCTTTGCTTTTGGACTGACCTGGGGGTATCTCCCTCTGCCACCCCAATTGT
GAATAAAGATTGTTTGCTTTGTAGCCCTTCCCCAGATGAACTGAGGTGAGAGCGGCTGTTCCAGGCTAACAGCT
GTGGGAGGCTTCTCTCTCTTCTCCCTTCTTTTTT

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FIGURE 2010

MPRKKPFSVKQKKKQLQDKRERKRGLQDGLRSSNSRSGSRERREEQTDTSDGESVTHHIRRLNQPSQGLGPRG
YDPNRYRLHFERDSREEVERRKRAAREQVLQPVSAEELLELDIREVYQPGSVLDFPRRPPWSYEMSKEQLMSQEER
SFQDYLGKIHGAYSSEKLSYFEHNLETWRQLWRVLEMSDIVLLITDIRHPVVNFPPALYEYVTGELGLALVVLN
KVDLAPPALVVAWKHYFHQHYPLHVLFSTFPRDPRTFQDPSSVLKKSRRRGRGWTRALGPEQLLRACEAITVG
KVDLSSWREKIARDVAGATWNGSGEEEEEDGPAVLVEQQTDSAMEPTGPTQERYKDGVVITIGCVGFPNVGKSS
LINGLVGRKVVSVSRTPGHTRYFQTYFLTPSVKLCDCPGLIFPSLLPRQLQVLAGIYPIAQIQEPYTAVGYLASR
IPVQALLHLRHPEAEDPSAEHPWCAWDICEAWAEKRGYKTAKAARNDEVYRAANSLLRLAVDGRLSLCFHPGYS
QKGTWESHPETTELVVLOGRVGPAGDEEEEEEEELSSSCEEEGEEDRDADEEGEGDEETPTSAPGSSLAGRNPYA
LLGEDEC

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FIGURE 2011

GGGATCATGGTAGATGGAACCCCTCCTTTTACTCCTCTCGGAGGCCCTGGCCCTTACCCAGACCTGGGCGGGCTCC
CACTCCTTGAAGTATTTCCACACTTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCTCTGTGGGCTAC
GTGGACGACACCCAGTTCGTGCGCTTCGACAACGACGCCGCGAGTCCGAGGATGGTGCCGCGGGCGCCGTGGATG
GAGCAGGAGGGGTGAGAGTATTGGGACCGGGAGACACGGAGCGCCAGGGACACCGCACAGATTTTCCGAGTGAAC
CTGCGGACGCTGCGCGGCTACTACAATCAGAGCGAGGCCGGGTCTCACACCCTGCAGTGGATGCATGGCTGCGAG
CTGGGGCCCGACAGGCGCTTCCTCCGCGGGTATGAACAGTTCGCCTACGACGGCAAGGATTATCTCACCCCTGAAT
GAGGACCTGCGCTCCTGGACCGCGGTGGACACGGCGGCTCAGATCTCCGAGCAAAAGTCAAATGATGCCTCTGAG
GCGGAGCACCAGAGAGCCTACCTGGAAGACACATGCGTGGAGTGGCTCCACAAATACCTGGAGAAGGGGAAGGAG
ACGCTGCTTACCTGGAGCCCCCAAAGACACACGTGACTCACCACCCCATCTCTGACCATGAGGCCACCCTGAGG
TGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCAGGATGGGGAGGGCCATACCCAGGAC
ACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGA
GAGGAGCAGAGATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCTGAGATGGAAGCCGGCT
TCCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTG
GTTGCTGCTGTGATATGGAGGAAGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTAAGGCTGAGTGGAGCGAC
AGTGCCAGGGGTCTGAGTCTCACAGCTTGTAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCT
GCCTTGTGTGCGACTGAGATGCAGGATTTCCCTCACGCCTCCCTATGTGTCTTAGGGGACTCTGGCTTCTCTTTT
TGCAAGGGCCTCTGAATCTGTCTGTGTCCCTGTTAGCACAAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGT
CTACCATGACCCCTTCCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCTGGG
CAGAGTGCGGCAGCTCATGCCTGTAATCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGAT
CGAAACCATCCTGGCTAACACGGTGAACCCCGTCTCTACTAAAAAATACAAAAAATTAGCTGGGCGCAGAGGCA
CGGGCCTGTAGTCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTG
AGCCAGGATTGTGCGACTGCACTCCAGCCTGGGTGACAGGTGAAACGCCATCTCAAAAAATAAAAAATAAAAAA
TAAAAAAGAACC

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FIGURE 2012

MVDGTL L L L L L S E A L A L T Q T W A G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P W M E Q
E G S E Y W D R E T R S A R D T A Q I F R V N L R T L R G Y Y N Q S E A G S H T L Q W M H G C E L G P D R R F L R G Y E Q F A Y D G K D Y L T L N E D
L R S W T A V D T A A Q I S E Q K S N D A S E A E H Q R A Y L E D T C V E W L H K Y L E K G K E T L L H L E P P K T H V T H H P I S D H E A T L R C W
A L G F Y P A E I T L T W Q Q D G E G H T Q D T E L V E T R P A G D G T F Q K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P V T L R W K P A S Q
P T I P I V G I I A G L V L L G S V V S G A V V A A V I W R K K S S G G K G G S Y S K A E W S D S A Q G S E S H S L

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FIGURE 2013

CCTGAGTCAGACGGGCATGGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAG
TTCAAAC TTGTATTGGTTGGTGATGGTGGTACTGGAAAAACGACTTTTCGTGAAACATCATTGACTGGTGAATTT
GAGAAGAAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCATACCAACAGAGGACCTGTTAAG
TTCAATGTATGGGACACAGCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGT
ACCATCATAGTGTTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGA
GTGTGTGAAAACACCCCCACTGTGTTGAGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCC
ATTGTCTTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTATAACTTTGAAAAGCCC
TTCTCTGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAAATTTGTTGCCATGCCTGCTCTGCCCCACCA
GAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCAGGACTTAGAGGTTGCTCAGACAACCTGCTCTCCCG
GACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCTGT
GATGTCAGTTGTGCAGCGTGTGTGCCACCTCATTATTATCTAGCTAAGCGGAACATGTGCTTCATCTGTGGGATG
CTGAAGGAGATGAGTGGGCTTCGCAGTGAATGTGGCAGTTCAAAAAATACCTTCATTGTTTGGACCTGCATATTT
AGCTGTTTTGGAACACAGTTGATTCCTTGAGTTTCAAATATAGACTGCTACAGTCACATCACAATATTCAGCGGT
GAAATCTTGTGTTTACTGTCATTCCCATTCCTTTTCGTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAA

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FIGURE 2014

MAAQGPQVQFKLVLVGDGGTGKTTFVKHHLTGEFEKKYVATLGVEVHPLVFHTNRGPVKFNVWDTAGLEKFSGL
RDGYIIQAQSTIIIVFDVTSRVTYKNVPNWHRLVEVCENTPTVLSGNKVDIKDRKVKAKSIVFHRKKNLQYYDIS
AKSNYNFEKPFLWLARKLIGDPNLEFVAMPALAPPEVVM DPALAAQYEHDLVAQT TALPDEDDDL

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FIGURE 2015

GGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAGTTCAAACCTTGTATTGGTT
GGTGATGGTGGTACTGGAAAAACGACTTTCGTGAAACATCATTTGACTGGTGAATTTGAGAAGAAGTATGTAGCC
ACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCATACCAACAGAGGACCTGTAAAGTTCAATGTATGGGACACA
GCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGTACCATCATAGTGTGTTGAT
GTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGAGTGTGTGAAAACACCCCC
ACTGTGTTGAGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGTCTTCCACCGAAAG
AAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAAGTATAACTTTGTTGTTGCCATGCCTGCTCTCGCCCCA
CCAGAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACTGCTCTC
CCGACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCC
TGTGA

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FIGURE 2016

CCCCAGACGCCGAGGATGGCCGTCATGGCGCCCCGAACCCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACC
CAGACCTGGGCGGGCTCCCACTCCATGAGGTATTTCTTCACATCCGTGTCCCGGCCCGCGCGGGGAGCCCCGC
TTCATCGCCGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGCCAGAGGATGGAG
CCGCGGGGCGCCGTGGATAGAGCAGGAGGGGCGCGAGTATTGGGACCAGGAGACACGGAATGTGAAGGCCAGTCA
CAGACTGACCGAGTGGACCTGGGGACCCTGCGCGGCTACTACAACCAGAGCGAGGCCGTTCTCACACCATCCAG
ATAATGTATGGCTGCGACGTGGGGTCGGACGGGCGCTTCCTCCGCGGGTACCGGCAGGACGCCTACGACGGCAAG
GATTACATCGCCCTGAACGAGGACCTGCGCTCTTGACCGCGGGCGGACATGGCGGCTCAGATCACCAGCGCAAG
TGGGAGGCGGCCCATGAGGCGGAGCAGTTGAGAGCCTACCTGGATGGCACGTGCGTGGAGTGGCTCCGCAGATAC
CTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGACCCCCCAAGACACATATGACCCACCACCCCATCTCTGAC
CATGAGGCCACCCTGAGGTGCTGGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGG
GAGGACCAGACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCGGCT
GTGGTGGTGCCTTCTGGAGAGGAGCAGAGATACACCTGCCATGTGCAGCATGAGGGTCTGCCCAAGCCCCCTCACC
CTGAGATGGGAGCTGTCTTCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGAGCT
GTGATCACTGGAGCTGTGGTCGCTGCCGTGATGTGGAGGAGGAAGAGCTCAGATAGAAAAGGAGGGAGTTACACT
CAGGCTGCAAGCAGTGACAGTGCCCAGGGCTCTGATGTGTCCCTCACAGCTTGTAAGTGTGAGACAGCTGCCTT
GTGTGGGACTGAGAGGCAAGAGTTGTTCTGCCCTTCCCTTTGTGACTTGAAGAACCCTGACTTTGTTTCTGCAA
AGGCACCTGCATGTGTCTGTGTTTCGTGTAGGCATAATGTGAGGAGGTGGGGAGACCACCCACCCCATGTCCAC
CATGACCTCTTCCCACGCTGACCTGTGCTCCCTCCCCAATCATCTTTCCTGTTCCAGAGAGGTGGGGCTGAGGT
GTCTCCATCTCTGTCTCAACTTCATGGTGCAGTGTAACTTCTTCCCTTCCCTATTAAAATTAGAACCTTAG
TATAAATTTACTTTCTCAAATTCTTGCCATGAGAGGTTGATGAGTTAATTAAAGGAGAAGATTCTAAAATTTGA
GAGACAAAATAAATGGAAGACATGAGAAC

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FIGURE 2017

ATGGCGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTCCCACTCC
TTGAGGTATTTTCAGCACCGCTGTGTCGCGGCCCCGCCGCGGGGAGCCCCGCTACATCGCCGTGGAGTACGTAGAC
GACACGCAATTCCTGCGGTTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAA
GAGGGGCCGAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGG
AACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGGAATGAATGGCTGCGACATGGGG
CCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGACGGCAAGGATTACATCTCCCTGAACGAGGAC
CTGCGCTCCTGGACCGCGGGCGGACACCGTGGCTCAGATCAGCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAG
GAGTTCAGGACCTACCTGGAGGGCGAGTGCCTGGAGTTGCTCCGCGAGATACTTGGAGAATGGGAAGGAGACGCTA
CAGCGCGCAGATCCTCCAAAGGCACACGTTGCCACCACCCCATCTCTGACCATGAGGCCACCCCTGAGGTGCTGG
GCCCTGGGCTTCTACCTGCGGAGATCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAG
CTTGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTTCTGGAGAGGAA
CAGAGATACACATGCCATGTGCAGCACGAGGGGCTGCCCCAGCCCCTCATCCTGAGATGGGAGCAGTCTCCCCAG
CCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTTGTTGTCCCTGGAGCTGTGGTCACTGGAGCTGTGGTCGCT
GCTGTGATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTCACTGACAGTGCC
CAGGGCTCTGGGGTGTCTCTCACAGCTAATAAAGTGTAGAGACAGCTTCCTTGTGTGGGACTGAGAAGCAAGATAT
CAATGTAGCAGAATTGCACTTGTGCCTCACGAACATACATAAATTTAAAAATAAAGAATAAA

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FIGURE 2018

MAPRSLLLLLSGALALDTWAGSHSLRYFSTAVSRPGRGEPRIIAVEYVDDTQFLRFDSDAAIPRMEPREPWVEQ
EGPQYWEWTTGYAKANAQTDRVALRNLLRRYNQSEAGSHTLQGMNGCDMGPDGRLLRGYHQHAYDGKDYISLNE
LRSWTAADTVAQITQRFYEAEEYAEEFRTYLEGECLELLRRYLENGKETLQADPPKAHVAAHPISDHEATLRCW
ALGFYPAEITLTWQRDGEETQDTELVEITRPAGDGTQKWAAVVVPSEEGQRYTCHVQHEGLPQPLILRWEQSPQ
PTIPIVGIVAGLVVLGAVVTGAVVAAMWRKKSSDRNRGSYSQAAVTDSAQSGVSLTANKV

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FIGURE 2019

GAGAGCACGACGTGCGCGCACCCCTCTCCCCTTGTCCACTGCTGCCGCTCCTTCTTCTGCCGCTCCTGGTGCTGC
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG
GCCGAAGAAAAGCCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT
GGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAG
GGATTGTCAATGAGGCAGATCAGATTCCGATTTCGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA
TGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGCTTCCACCACATCC
TGACTACTACCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCCATTCTTTACTGTACATAAAGTAACTG
GTATATGTGCACAAGCATATTACTTTTTTTTTTTTAAACTAAACAGCCAATGGTATGTTTTGATTGACATCAAGT
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTACAGCTCTT
ATCTTTATATTCCAGTAAGTTATTTTGCTCTCACGTGTTTTAACAACAACAACAAAAACAACAACATAAAAAATC
CTTGCATACCTTGTTCAATTGGAGAATTTTAATGTTTTTCATTTATCATTGTAAACCAAGGACAATTTTATAAC
TTTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAACAAAAAAGAA
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTTGTTTAAATAAACTTCTTGTTTAAAA

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FIGURE 2020

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLSW
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSIRKLQFASTTS

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FIGURE 2021

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGA
CTCCGGCGCTCGCCATGGCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGA
AGGTGGCGGGGCAGGATGGTTCTGTGGTGCACTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAG
CCTATTGTGAACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTGCGCGGGCAACCAATGAAACAGACAC
ACCTGCACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAA
AGGGAACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGTCTTTCATTTT
CCCCTTCCCCATTCTTTACTGTACATTAAAGTAACTGGTATATGTGCACAAGCATATT

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FIGURE 2022

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLHSW
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSISLSFPPSPFLYCT

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FIGURE 2023

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGT
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCCGCTGGTTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC
TGTTCATGCGGTTTACGCGGAGGCCGGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 2024

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASF IKYSQLHFKSRESR
AGARDQPIIWKLKANYSAEERFLLLGFSDWPSLQPVLFAVLVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH
LALVDAGFTTSVVPPLLANLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGDTTENQMFAARVVILLLPFAVI
LASYGAVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI
YTLRNKKVKGAARRLLRSLGRGQAGQ

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FIGURE 2025

ATGGGGAGAAGGTATGTGAGGAAGGAAAGAAAAAGGCCAGCAGGTGAAGAAAAAGAAGAAGGTCTGGTGAGGACA
ATGGAGACGGCCAATCGTTCCTTAAACGGTCTCCTCCTCCTGGTTCCTCTCTCCAAGATGGCAAGGGAGCCTGC
AAATTCGGTCTCCAAGGATCCCTCTGCCAGAGCAACGAACCTCCCTTTGGCAATATAGGAATAATCTTCATTCTC
CCTGCAATTGTGCACATTAATAGGCTGTTTAATGAAAGTACAGTGTGGAGCTCATTATTGCGAACAGCAGCCCTT
AGAGATCGTAGCTGGCTGGTAAAGGCGGCTTTAGAGCGGACGCCCAGGCTTCTTCATCAGCTTACCAGAAGGTTG
GAGGCAGAAGACCTCCCATTTGCAGATTCACTCATTTCTCCGCTTATGCTTCCGTTCTTTGAAAGTGAACCACTA
GGTTTCAGAAAGCACCAGGCAGTTAAAACAGAGTTTACTCCCTCGGTCACTGCACTAGAAATCAGGAGGCGAACA
CTGTACCTAAACATAAAACGACATTCTCAAAAACCTGCCCTGCACAGGCTTGTTGGGACTTCACGATCCTTCTTGG
ACCTGCATCCCCCTCTTCTCTGGTACTCGGACCAAAATCGAACAATCAAGCAACAAAGTTGGCCTTAAAATTGAG
GCCCCAGAGATGAGGTTACTGAGCGGTATATGTACAGAGCCAAACTTTCTGCAATGAATTGGAAAAGAACATC
AAGACAGAGGGAGGAGCGCTGGGGGTGAACACCGCCTTGACCTTTGTAACCTGCTGCACAAATAAGGAGTGGTTG
CTGTGCCAGTTTTCCCTGAAGAGGTGCCTGACCAGCTGGCTCTGTGAATTCGAATACAGTTTTTCAGGCAGGCTCT
GGGAGAGTTTTGGGGAATCCCGAAAGACAGCCCAGAGATGCTGGACTGCGAATGCAGGCGCGCTGCAGGCGAGGC
TGGGAGGGCCGCCAGGAGCGCTGCGGGTATCGGGAGACACGCAGAGGGAGGGGCAGGCGGCGGGCTCCGCTTCTT
CGCGTCTGGCTCTGAAAGCAACCACAGGCCAGCGGGGCGGTGCTAGAAAAACACAACCTTCACGGAAGAGTTTT
GAAAAGATTTCCGGCAAGAAAATAATGTTACCAGAGACCGTTGAGGCCCCGCCAGCCTTCAAGATGGATGCCCTT
GCTGGCCGCAAAGTGGGTCTCATTGCTCCCCGCCGACTGGACGTCTCCGGGGAACGAAGACTGTGCAGGAGAAA
GAGAGCTAG

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FIGURE 2026

MGRRYVRKERKRPAGEEKEEGLVRTMETANRSLKRSPPPGSSSLQDGKGACKFGLQGSLCPEQRTPPFGNIGIIFIL
PAIVHINRLFNESTVWSSLLRTAALRDRSWLVKAAALERTPRLLHQLTRRLEAEDLPFADSLISPLMLPFFESEPL
GFRKHQAVKTEFTPSVTALEIRRRTLYLNIKRHSQKLPCTGLLGLHDPSTWCIPLFSGTRTKIEQSSNKVGLKIE
APEMRLLSGYMSQSQTFCNELEKNIKTEGGALGVNTALTFTVCCTNKEWLLCQFSLKRCLTSWLCEFEYSFQAGS
GRVLGNPERQPRDAGLRMQARCRRGWEGRQERCYRETRRGRGRRRAPLLRVLALKATTGQRGGARKTQPSRKSF
EKISGKKIMLPETVEARPAFKMDAPAGRKVGLIAPRRTGRLRGTKTVQEKES

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FIGURE 2027

TACGGCCGTCGTGCCGCTCGTGTCAAGTCAACATGGAGGCAGAGGAATCGGAGAAGGCCGCAACGGAGCAAGAGCC
GCTGGAAGGGACAGAACAGACACTAGATGCGGAGGAGGAGCAGGAGGAATCCGAAGAAGCGGCCTGTGGCAGCAA
GAAGCGGGTAGTGCCAGGTATTGTGTACCTGGGCCATATCCCGCCGCGCTTCCGGCCCCGTCACGTCCGCAACCT
TCTCAGCGCCTATGGCGAGGTTCGGACGCGTCTTCTTTTCAGGCTGAGGACCGGTTTCGTGAGACGCAAGAAGAAGGC
AGCAGCAGCTGCCGGAGGAAAAAGCGTCTACACCAAGGACTACACCGAGGGATGGGTGGAGTTCGCTGACAA
GCGCATAGCCAAGCGCGTGGCGGCCAGTCTACACAACACGCCTATGGGTGCCCCGAGGCGCAGCCCCCTCCGTTA
TGATCTTTTGGAACTCAAGTACTTGCACCGTTTTCACCTGGTCCACCTCAGCGAGCACCTCGCCTTTGAGCGCCA
GGTGCGCAGGCAGCGCTTGAGAGCGGAGGTTGCTCAAGCCAAGCGTGAGACCGACTTCTATCTTCAAAGTGTGGA
ACGGGGACAACGCTTCTTGCGGCCGATGGGGACCCTGCTCGCCCAGATGGCTCCTGGACATTTGCCAGCGTCC
TACTGAGCAGGAAGTGAAGGGCCGTAAGCAGCAGGCCAGGGGACGTGAACGGGCTCGCCTGGCAACTGCCCA
GGACAAGGCCCGCTCCAACAAAGGGCTCCTGGCCAGGATCTTTGGAGCCCCGCCACCCTCAGAGAGCATGGAGGG
ACCTTCCCTTGTCAAGGACTCCTGAGGGCCTGGGTGGCCCCCTTCCATTTCTGCCCCTGCTCTGCTTCTGTCTA
CCTCATACTAGAATGATCGTGACTACCCGGGCAGACATTTTACTGTGTTTCTCAGACCAAGTGTCTACTGATGGC
CCAAACATGGAGTTTGTGGGCTTCCACTGTCCCACTCCGAACCTCCTGTATGTGCCTGGCTGAGTCACCTAATT
CATACTGTCATACTAGCATAATTATGACTATTGCATATGCTTGTGTTTGTGACTCTTGGCTGCCTACGTCTGTA
GGGTCCCTGAAAAATCCCACTTCCCTGCCCCCAGAAAGGGCCTTTATTTCCAACCTAGGAGGATAATGCCTAGTCCA
GGCAATCTTTCTCTGTTTAGCAGTCACAGGTGAGGGTGGTATTAGCATCTTTTTTATGTAGAAAAAATTGAGTTA
ATGGGGTGGACTGGGTGGGAAGAAATACATTTCCCTAATGTATTTATAGAAAAATAAAATATTTTTATGTGCCTT
TTTATTTTTGTTGGTGGGGAGGTCATTGGACAAGTTCCAACCTTTCATCTTGTGTTCCCTTCACCTTCATATCCTG
ATCTTAGAGCCCCCTCCCCCTGCCACCCACCTTACTGTTTAACTGGATTTTTTTTTCTATTTAATTTTTGTCT
AATATCTTAGCCCAGTTTATCAATCAGTTATCTTAAGTCAGCATTTTCTAAGCCATTGTTTGAGGAAACAGTGAC
AATAGGTAATAACACATCTTAGTATTAAGAGTTTTACAGGCCACTAGTATAAGATAGGCATCGTGGTAGATGCAT
ATAAAGGGTGGAAATGGGAGCCATGGCAGGTATAGAGTCTCTCAATGGGAACCTGATTGATGATCACAGTCTTC
AGTGGTGAGTCAGTCCTCACCAGTTTTCCAGATCATTCTTACAAAGTAACTGGGAGAATAATAAGTCTGAAAG
AGTGTGGAGTGCTCCACAATTACAAAGAATGCTTCTGGGTGGAGTGTGAGTTGGAACCATTGTAAAGGTGGG
CAAAGCCTAGTAGAGAACCAGTGCACCTCAGGTGCACTTACATATGGTGGGGCTGAGGCAAAGCAGCCCTGTAGG
CTTCAAAGAATCAGTGTAAAGCCACTAAAAGGAAGTGAACCTAGGTGTCACAATAAACAGTCTACACAGTCTCA
CGTAGACCAAAATTCTGATCATTTTCCAGGCTGTTGCATGAAGTGATAGAGTATGATTATAATTTCTGTTTGCTT
GTGCTGTTTGTGTTTTGTTTTTTCATCTGTCAATGTGATGATCTGTGTTTTATAGGGTAGAGTGGATTTGTCTACTT
TGGCTGTAAATACCCTAATCACATTATGATCTTGACAGGTGCACCTTACTGGGGAGAATAAAAAGGACCATACG
GTAAA

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FIGURE 2028

MEAESEKAATEQEPLGTEQTLDAEEEQEESAAAACGSKKRVVPGIVYLGHIPPRFRPLHVRNLLSAYGEVGRV
FFQAEDRFVRRKKKAAAAAGGKKRSYTKDYTEGWVEFRDKRIAKRVAASLHNTMPGARRRSPFRYDLWNLKYLHR
FTWSHLSEHLAFERQVRRQRLRAEVAQAKRETD FYLQSVERGQRF LAADGDPARPDGSWTFAQRPTQEELRARKA
ARPGGRERARLATAQDKARSNKGLLARIFGAPPPSESMEGPSLVRDS

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FIGURE 2029

ATTGCTTTCTCTTTTTCTTTCTTCCGGATGAGAGGCTAAGCCATAATAGAAAGAATGGAGAATTATTGATTGA
CCGTCTTTATTCTGTGGGCTCTGATTCTCCAATGGGAATACCAAGGGATGGTTTTCCATACTGGAACCCAAAGGT
AAAGACACTCAAGGACAGACATTTTTGGCAGAGCATAGATGAAAAATGGCAAGTCCCTGGCTTTCTTTCTGCTCA
ACTTTCATGTCTCCCTCCTCTTGGTCCAGCTGCTCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCCTCTG
GGCCCATCCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCCCGACCATGAGTGCAGAGACCA
TGGAGCTGAAGTGGGTAAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAGGAAGTGGAAGACA
GGCAGAGTGCACCGTATCGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAA
TACACAACGTCACAGCCTCTGACAGTGGAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTATGAAAAAGCCC
TGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTAATCTTCACGTCGAAGTGAAGGGTTATGAGGATGGAGGGATCC
ATCTGGAGTGCAGGTCCACCGGCTGGTACCCCCAACCCCAAATACAGTGGAGCAACGCCAAGGGAGAGAACATCC
CAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCTATATGAAGTAGCAGCATCTGTGATCATGAGAGGCG
GCTCCGGGGAGGGTGTATCCTGCATCATCAGAAATTCCCTCCTCGGCCTGGAAAAGACAGCCAGCATTTCATCG
CAGACCCCTTCTTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCCGCTATCTTGCTGCTGCTTC
TCGCCGGAGCCAGTTACTTCTTGTGGAGACAACAGAAGGAAATAACTGCTCTGTCCAGTGAGATAGAAAGTGAGC
AAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGGAAATAAGCCTAAGAGAGAGCCTCCAGGAGGAAGTCA
AGAGGAAAAAATCCAGTACTTGACTCGTGGAGAGGAGTCTTCGTCCGATACCAATAAGTCAGCCTGATGCTCTAA
TGGAAAAATGGCCCTCTTCAAGCCTGGTGAGGAAATGCTTCAGATGAGGCTCCACCTTGTTAAATAAATTGGATG
TATGGAAAAATAGACTGCAGAAAAGGGGAAGTCAATTTAGCTCACGAGTGGTCGAGTGAAGATTGAAAATTAACCT
CTGAGGGCCAGCACAGCAGCTCATGCCTGTAATCCTAGCACTTTGGAAGGCTGAGGAGGGCGGATCACAAGGTCA
GGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATAAAAAATTAGCCG
GGCATGGTGACGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGAAGGCA
GAGCTTGAGTGAAGCGAGATCACGCCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCTGTCTCAAGAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 2030

MKMASSLAFLLLNFHVSLLLVLTPCSAQFSVLGSPGILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDIFYEKALVELKVAALGSNL
HVEVKGYEDGGIHLECRSTGWYPQPQIQWSNAKGENIPAVEAPVVADGVGLYEVAASVIMRGGSGEGVSCIIRNS
LLGLEKTASISIADEFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQQKEITALSSEIESEQEMKEMGYAATER
EISLRESLQEELKRKKSST

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FIGURE 2031

ATGGACAGGACTGTCATTTCAGAAATACCACACTGTGAATGGCCACAGCTGTGAAGTTAGGAAAGCCCTGTCAAAG
CAAGAGATGGTTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGCTGGTGGTCTTAGAAGT
GGTTTCAGTGGGAATAACAACCTTTGGTCGTGGAGGAACTTCCGTGGTCGTGGGGCCTTTGGTGGCAGCCGTGGT
GGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATATGGCCCAGATAAACAGTCTCCACTTGTTTCAGGAC
TTCAACGGAGATATTCCACTCAGTCCTGCTTATGCCAGACACCTTGACGAGCCTCTCCCAAGATAGCTAGGACT
CAGGGAACATGCAGGCTGACACAAGCATTGATGATCTATATTAATGCAAGTGTAATATGGAATGGAGAATTTTTA
CAAATGGTGTTCATTACCAGCCATTAATGCCATAGCTTTAATTTGTTTCATTAAGTTTAGCAGCCAGTTACCTAACA
GGTCATCAAAGGAGGGACACAGAAGAGGCAAGCACTGATAATGAAAGGTCTATATCACAGGTGTGCTCAGAAAAG
GCAAGCACAGATCACAGTTTCCAGGGCTGCCAGCAGAATGGATTTAATATTGCCACGTGGGAAGAAGAAAAAGCC
ACAGGGTGCAGATATCAGGAATCTGAATTTCCGGGGCATAACGTGTGCACAGATGCAGCTTCAACAGATTCATCA
TATCATCCCCTTCAGAGCTGCTGTGACAGTTTACACCAGATTAACCTCTCAGTTTCCAGAAAAAGAGGAAACTCTG
GCCTAG

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FIGURE 2032

TTCCCCAGCATTTCGAGAACTCCTCTCTACTTTAGCACGGTCTCCAGACTCAGCCGAGAGACAGCAAACCTGCAGC
GCGGTGAGAGAGCGAGAGAGAGAGAGAGACTCTCCAGCCTGGGAACATAACTCCTCTGCGAGAGGCGGAG
AACTCCTTCCCCAAATCTTTTGGGGACTTTTCTCTCTTTACCCACCTCCGCCCCTGCGAGGAGTTGAGGGGCCAG
TTGGGCGCGCGCGCGCTTCCCGTTTCGGCGTGTGCTTGGCCCCGGGAACCGGGAGGGCCCCGGCGATCGCGCGG
CGGCCCGCGAGGGTGTGAGCGCGCTGGGCGCCCCGCCGAGCCGAGGCCATGGTGCAGCAAACCAACAATGCCG
AGAACACGGAAGCGCTGCTGGCCGGCGAGAGCTCGGACTCGGGCGCCGGCCTCGAGCTGGGAATCGCCTCCTCCC
CCACGCCCGGCTCCACCGCCTCCACGGGCGGCAAGGCCGACGACCCGAGCTGGTGAAGACCCCGAGTGGGCACA
TCAAGCGACCCATGAACGCCTTCATGGTGTGGTTCGAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCCGACA
TGCACAACGCCGAGATCTCCAAGCGGCTGGGCAAACGCTGGAAGCTGCTCAAAGACAGCGACAAGATCCCTTTCA
TTCGAGAGGCGGAGCGGCTGCGCCTCAAGCACATGGCTGACTACCCGACTACAAGTACCGGCCAGGAAGAAGG
TGAAGTCCGGCAACGCCAACTCCAGCTCCTCGGCCCGCCCTCCTCCAAGCCGGGGGAGAAGGGAGACAAGGTCG
GTGGCAGTGGCGGGGGCGGCCATGGGGGCGGCGGCGGCGGGAGCAGCAACGCGGGGGGAGGAGGCGGCGGTG
CGAGTGGCGGCGGCGCCAACTCCAAACCGGCGCAGAAAAAGAGCTGCGGCTCCAAAGTGGCGGGCGGCGGGCG
GTGGGGTTAGCAAACCGCACGCCAAGCTCATCTGGCAGGCGGCGGCGGCGGGAAAGCAGCGGCTGCCGCGG
CCGCTCCTTCGCCGCCGAACAGGCGGGGGCGGCCCTGCTGCCCTGGGCGCCGCCGACCACCACTCGC
TGTACAAGGCGCGGACTCCAGCGCCTCGGCCTCCGCCTCCTCGGCAGCCTCGGCCTCCGCAGCGCTCGCGGGCC
CGGGCAAGCACCTGGCGGAGAAGAAGGTGAAGCGCGTCTACCTGTTTCGGCGGCCTGGGCACGTCGTCGTCGCGG
TGGGCGGCGTGGGCGCGGAGCCGACCCAGCGACCCCTGGGCTGTACGAGGAGGAGGGCGCGGGCTGCTCGC
CCGACGCGCCAGCCTGAGCGGCGCAGCAGCGCCGCTCGTCCCCCGCCGCCGCGCTCGCCCGCCGACCACC
GCGGCTACGCCAGCCTGCGCGCGCCTCGCCCGCCCCGTCCAGCGCGCCCTCGCACGCGTCTCTCGGCCTCGT
CCCACTCCTCCTTCTCTCTCTCGGGCTCCTCGTCTCCGACGAGTTTGAAGACGACCTGCTCGACCTGA
ACCCAGCTCAAACCTTTCGAGAGCATGTCCCTGGGCAGCTTCAGTTTCGTCGTCGGCGCTCGACCGGGACCTGGATT
TTAACTTCGAGCCCGGCTCCGGCTCGCACTTCGAGTTCCCGGACTACTGCACGCCCGAGGTGAGCGAGATGATCT
CGGGAGACTGGCTCGAGTCCAGCATCTCCAACCTGGTTTTTACCTACTGAAAGGGCGCGCAGGCAGGGAGAAGGGC
CGGGGGGGTAGGAGAGGAGAAAAAAGTGAAGGAGGCTCGTTTCGCCCGCGTTCTCGTCTCGGATCAAGGAGCGCGGGC
AGGGAAAAAGAAAAGAAAAGTAAGCAGGGCTCGTTTCGCCCGCGTTCTCGTCTCGGATCAAGGAGCGCGGGC
GTTTTGGACCCGCGCTCCCATCCCCACCTTCCCGGGCGGGGACCACTCTGCCAGCCGGAGGGACGCGGAGG
AGGAAGAGGGTAGACAGGGGCGACCTGTGATTGTTGTTATTGATGTTGTTGTTGATGGCAAAAAAAGCGAC
TTCGAGTTTGCTCCCCCTTGCTTGAAGAGACCCCTCCCCCTTCCAACGAGCTTCCGGACTTGTCTGCACCCCA
GCAAGAAGGCGAGTTAGTTTCTAGAGACTTGAAGGAGTCTCCCCCTTCTGTCATCACCACCTTGGTTTTGTTTT
ATTTTGCTTCTTGGTCAAGAAAGGAGGGGAGAACCAGCGCACCCCTCCCCCTTTTTTAAACGCGTGATGAA
GACAGAAGGCTCCGGGGTGACGAATTTGGCCGATGGCAGATGTTTTGGGGGAACGCCGGGACTGAGAGACTCCAC
GCAGGCGAATTCCCGTTTGGGGCTTTTTTCTCTCTCTTTTCCCTTGGCCCCCTCTGCAGCCGGAGGAGGAGA
TGTTGAGGGGAGGAGCCAGCCAGTGTGACCGGCGCTAGGAAATGACCCGAGAACCCGTTGGAAGCGCAGCAGC
GGGAGCTAGGGGCGGGGCGGAGGAGGACGAACTGGAAGGGGTTACGGTCAAACGAAATGGATTGTCACG
TTGGGGAGCTGGCGGCGGCGGCTGCTGGGCCTCCGCCTTCTTTTCTACGTGAAATCAGTGAGGTGAGACTTCCCA
GACCCCGGAGGCGTGGAGGAGGAGACTGTTTGATGTGGTACAGGGGAGTCAGTGAGGGCGAGTGGTTTTCGG
AAAAAAGAAAAAAGGG

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FIGURE 2033

MVQQTNNNAENTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDP SWCKTPSGHIKRPMNAFMVWSQIERR
KIMEQSPDMHNAEISKRLGKRWKLLKDSKIPFIREAERLRLKHMADYPDYKYRPRKKVKSGNANSSSSAAASSK
PGEKGDKVGGSGGGGHGGGGGGSSNAGGGGGGASGGGANSKPAQKKSCGSKVAGGAGGGVSKPHAKLILAGGGG
GGKAAAAAASFQAEQAGAAALLPLGAAADHHSLYKARTPSASASASSAASASAALAAPGKHLAEKKVKRVYLF
GLGTSSSPVGGVGAGADPSDPLGLYEEEGAGCSPDAPSLSGRSSAASSPAAGRSPADHRGYASLRAASPAPSSAP
SHASSASSHSSSSSSSSGSSSSDDEFEDDLLDLNPSSNFESMSLGSFSSSSALDRDLDFNFEPGSGSHFEFPDYC
TPEVSEMISSGDWLESSISNLVFTY

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FIGURE 2034

GGCCCGCCGCGCGCCGAAATCCGCGGTTTACAGCATGTGCTCCGCTCGGCCCCCTGCTGCGGAGGGGGAGGGAACCCCC
ACCCAGCCCCGCTCCGAGAAAGAACCCGAAATGCCCGGTCCCAGAGAGGAGAGCGAGGAGGAAGAGGACGAGGAC
GACGAGGAGGAGGAGGAGGAGGAAAAAGAAAAGAGTCTCATCGTGGAAGGCAAGAGGGAAAAAGAAAAAGTAGAG
AGGTTGACAATGCAAGTCTCTTCCTTACAGAGAGAGCCATTTACAATTGCACAAGGAAAGGGGCAGAACTTTGT
GAAATTGAGAGGATACATTTTTTTCTAAGTAAGAAGAAAACCGATGAACCTTAGAAATCTACACAACTGCTTTAC
AACAGGCCAGGCACGTGTGTCCTCATTAAAGAAGAATGTGGGTCAGTTTCAGTGCTTTCCATTGAAAAAGGAAGT
GTCCAATATAAAAAGAAGGAAGAAATGTTGAAAAATTTAGAAATGCCATGTTAAAGAGCATCTGTGAGGTTCTT
GATTTGGAGAGATCAGGTGTAAATAGTGAAGTGTGAGGAGGATCTTGAATTTCTTAATGCATCCAAAGCCTTCT
GGCAAACCATTTGCCGAAATCTAAAAAACTTGTAGCAAAGGCAGTAAAAAGGAACGGAACAGTTCTGGAATGGCA
AGGAAGGCTAAGCGAACCAATGTCTGAAATTCTGTGAGATGAATCTAGTAGTGATGAAGATGAAAAAGAAAAAC
AAGGAAGAGTCTTCAGATGATGAAGATAAAGAAAGTGAAGAGGAGCCACCAAAAAAGACAGCCAAAAAGAGAAAAAC
CCTAAACAGAAAGCTACTTCTAAAAGTAAAAAATCTGTGAAAAGTGCCAATGTTAAGAAAGCAGATAGCAGCACC
ACCAAGAAGAATCAAAACAGTTCCAAAAAGAAAGTGAGTCTGAGGATAGTTCAGATGATGAACCTTTAATTAAA
AAGTTGAAGAAACCCCTACAGATGAAGAGTTAAAGGAAACAATAAAGAAATTACTGGCCAGTGCTAAGCTTGAA
GAAGTCACAATGAAACAGATTTGCAAAAAGGTCTATGAAAATTATCCTACTTATGATTTAACTGAAAGAAAAGAT
TTCATAAAAACAACTGTAAAAGAGCTAATTTCTTGAGATAGAGGACAGAGAAGATGACTCGTTCCCATAGATTTG
AAGATCTGATTTATACCATTATACCAGCAAAGAGAATGTATTTCTTTTCTAAATCCTTGTTAAGCAACGTTAGT
AGAAGTACTGCTGACCTTTTTATCTTGAGTGTTATGTGAATTTGAGTTTGCTGTTTTAAATTGCATTTCTATGC
CATTTTTAGTTTAAAATCTTGATGTCATTAAATTGTTCTTTGCTTTTATAGTTGTATTTTGTACATTTTGGATTT
CTTTATATAAGGTCATAGATTTCTTGAGCTGTTGTGGTTTTTGTAGTGCATTAATATTAGCTTGCTTAAGGCATACT
TTTAATCAAGTAGAACAAAACTATTATCACCAGGATTTATACATACAGAGATTGTAGTATTTAGTATATGAAAT
ATTTTGAATACACATCTCTGTCAGTGTGAAAATTCAGCGGCAGTGTGTCCATCATATTAATAATATACAAGCTAC
AGTTGTCCAGATCACTGAATTGGAACCTTTTCTCCTGCATGTGTATATATGTCAAATTGTGAGCATGACAAAAGTG
ACAGATGTTATTTTXXGTATTTTTTAAAAACAATTGGTTGTATATAAAGTTTTTTTATTTCTTTTGTGAGATCAC
TTTTTAACTCACATAGGTAGGTATCTTTATAGTTGTAGACTATGGAATGTCAGTGTTGAGCCAAACAGTATGAT
GGAACAGTGAAAGTCAATTCAGTGATGGCAACACTGAAGGAACAGTTACCTGCTTTGCTTCGAAAGTGTCATCA
ATTTGTAATTTTAGTATTAAGTCTGTAAAAGTGTCTGTAGGTACGTTTTATATTATATAAGGACAGACCAAAAT
CAACCTATCAAAGCTTCAAAAACCTTTGGGAAAGGGTGGGATTAAGTACAAGCACATTTGGCTTACAGTAAATGAA
CTGATTTTTTATTAAGTCTTTTGGCCATATAAAATGCTGATATTTACTGGAACCTAGCCAGCTTACAGATTATG
ACTAAAGTACCAGATTATAATGCCAGAATATAATGTGCAGGCAATCGTGGATGTCTCTGACAAAGTGTGTCTCAA
AAATAATATACTTTTACATTAAAGAAATTTAATGTTTCTCTGGAGTTGGGGCTCTTGGCTTTCAGAGTTTGGTTA
ATCAGTGTTGATTCTAGATGATCAACATAATGGACCACTCCTGAATGAGACTTAATTTTGTCTTTCAAATTTACT
GTCTTAAATCAGTTTATTAAATCTGAATTTTAAACATGCTGTTTATGACACAATGACACATTTGTTGACCAAT
TAAGTGTTGAAAAATATCTTTGCATCATAGAACAGAAATATATAAAAAATATATGTTGAATGTTAACAGGTATTTT
CACAGTTTGTCTTCTTGATAGTTACTCAGACACTAGGGAAAGGTAAATACAAGTGAACAAAATAAGCAACTAAAT
GAGACCTAATAATTGGCCTTCGATTTTAAATATTTGTTCTTATAAACCTTGTCATAAAAAATAAATCTAAATCA

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FIGURE 2035

MSASAPAAEGEGTPTQPASEKEPEMPGPREESEEEEEDEDEEEEEEEKEKSLIVEGKREKKKVERLTMQVSSLQR
EPFTIAQGKGQKLCEIERIHFFLSKKKTDELRLNLHKLLYNRP GTVSSLKKNVGQFSGFPFEKGSVQYKKKEEMLK
KFRNAMLKSICEVLDLERSGVNSELVKRILNFLMHPKPSGKPLPKSKKTC SKGSKKERNSSGMARKAKRTKCPEI
LSESSSDEDEKKNKEESSDDDEDKESEEEPPKKTAKREKPKQKATSKSKKSVKSANVKKADSSTTKKNQNSSKKE
SESEDSSDDEPLIKKLLKKPPTDEELKETIKKLLASANLEEVMTKQICKKVYENYPTYDLTERKDFIKTTVKELIS

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FIGURE 2036A

GGGGGAGGGAAACGGAGCAGTGACAGGTATCCCAGAGGGTGCTGCTGAGGCGACGATGGCCGAGGGGCCCCGAGGA
AGCCCCGAGGCCACCCTCCCCGGGCAGGACGATGGCGGAGGGGACCACGAGCCCGTCCCTTCCCTGAGAGGCCCTCC
TACCACCGCCGTCCCATGCCCCCGCGACGACCCCCAGGCCGAACCCAGGCCCGGGCCGCCACAGCCCCGGG
CCTCGCGGCTGCCGCCGAGCCGACAAATTGGAGCCGCCGCGGAGCTCAGGAAGCGCGGGGAGGCGGCCCTCCGG
CTCCGGTGCAGAGCTGCAGGAGCAGGCGGGCTGCGAGGCGCCGAAGCCGCGGCCACGAGAGAGACCAGCTCG
GCTGAGCGCCCCGCGAGTACTCCCGCAAGTGCACGAGTGGCTGTGGCAGTCTACTGCGGCTACCTCACCTGGCA
CAGCGGCCTGGCCGCCTTCCCAGCCTACTGCAGCCCCAGCCCTCCCCGAGAGCTTCCCTTCGGGCGGCGCTGC
AGTCCCCAGGCCGCGGCGCGCCGCCCGCCCGCAGCTGGGCTATTACAACCCCTTCTACTTCTGAGCCCCGGGGC
CGCGGGGCTGACCCGCGGACAGCTGCCGGCATCAGCACCCCTGCTCCAGTTCGCGGGCCTGGGACCCCGGGCTCC
TCACGTGCAGGCGTCCGTCCGGGCCACTCCAGTGACGAGGGTAGGATCCGCGAGCCCTTCGCGAAGCCCGAGCGA
GACCGGGCGACAGGCAGGCAGAGAATATGTTATTCCATCCTTGGCCACAGATTATGGCAGAGATGGTGGATTT
CTTTATTCTCTTTTATAAAAGCAACCATTGTCTTAAGCATTATGCACCTCAGTGGGATAAAGGATATCTCTAA
GTTTGCTATGCATTATATAATAGAAGAAATAGATGAAGACACATCAATGGAAGACTTGCAGAAAATGATGGTTGT
GGCACTTATATACAGATTATTAGTTTGTCTTATGAGATAATTTGCATTGGGGAGCAGGTGGAGCTACCCCAAG
GAAGTTCCTGCTGGGGCTTCGAGTTGTGACATGTGATACATCAGTGCTTATTGCACCAAGTCGGGTTTTAGTGAT
TCCTTCCTCAAATGTTAGCATTACAACGTCCACTATCCGAGCTTGTATCAAGAATTTTTCAATTGCTTCTTTTTT
CCCTGCTTTCATCACACTGCTGTTTTTTCAGCATAATCGAACAGCTTATGACATTGTAGCAGGAACCATTGTGGT
AAAAAGAAATGGGGTCAGATGATGCCCCCAAAACCCTGATTCCACACACTAAGACTAAATTATGTATCAAGGC
CATCAGTATCCCTGGGTTACACTAATTGATGATTTAGAAATTAAAGCAGTCACTCCAGTGTGATGCAGGTGACTA
CTCTGAAAGTATTGATTATACTTGAATGCCAAAGAACTTGTCAGAAAGAAAACCTGTTAAATTCAAGTATTAA
ATTTTTAGATCAAAAAGGCAAATGATTTTATAAACAATGGACAATATATACCTTCTTAAGATCTAAGGTACTTTC
TTAAGATCTAAGAATTTGCTGAAAGCATTTTCAGCTTTGAAATCTCCAAATGAACTTTAAATTTATTTTGGTT
TATCCCAAAATAATGGAAAATGTCCAGTTGTGTTTTGTAAACACCTATGTAACCTCATCTTTTAGTTTACACTTCC
TGGGGAATTTGTCTTTGGTGTTTAGAGGAGGGAATGAGAACACAAATTGGATAATCCACTGTCTCCCATCCCAGG
AGGTGGTGAGTTGGCTACAAGAGAAAGGGACAAGTGAGGCAGGCCTAGCAGTTCCCTTACCTGAAGTTTTCAAAT
CCATACTGCAGTTCCTCTCGTAATGATGTAACCTTTACAACCTATTCTTAATGCTTGAACATGTATTTAGGGGCAA
GTTTCTCATGATGATGAAAAAGTATCAAGTCATATTGCTATGTTAATTGGTTTTTTTTTTTAAAGGTAAGTTAG
TGATTACTGTTAATGGTGGGGGAGTAAGTTTTCACTGTAAATTGAACTTATAATTTATGTGCAAGTGTTTTCAGT
GCCCTGAATCAAATATAAATGTGGGGAGAAATCACCTCCATCAAACAGTTGCATATTTACTGTAAAGTATTCC
CAGTATGTGTGCAGCATGAAGAAAGTATTAGTGCTTCTCAGTGTTCTCAGTGTAATTTCTATTTATATACAGCAT
ATTCACATACTACTTTCCTTATATTTTATATAGTTCTATGACTGTTGAAACATCAAGGAGTTAAAAAATCTTAA
TATTTATGATTAACCTCTAAGTACTATTAATTAATAGCTTGCGAAATATTAGCAATTTTCCCATTTAGGACTATT
CTCTCTAAAGCAAGAGAGACTAGCATTCCAGACATCATTCTAGGGTCTTTAAGCTCATTTTGGGTCTGCTAAAG
TTTGGGGGGAAATGTTACGCAAAGTGATACTGTGTATGTTGCCATTTTGCTTTATTCTTCTGTTGAAGCAAAT
GTGGGGTTTTATTATGTGTGTGCTTTTCTTAGATGTCCAGTTAGCTGTGCTGAGATATACCTGTACTATTTA
TGGTTTAAAGTTTTGATTCTTAGGTATTTTCTCCAGCTCTGACATTGTTTTCAAAGACACACTAACTGCATTGC
ACAGTTCAAATTTGATTACTTAAGGGATCAATCTAGGTGGTGTCTTGGTCTTAAATTTAACAGCAAACACAGC
ACATATCTATTATCACTATATTAATTTTCAAAGGTTTTCTTTGACGTTTAAACTGTGACAACAGATATTCACA
TTTGATTATAGAACTTAATGTCTATTAATAATTTTAGTACAAAATTTTATAAACCCTGTTTTTCAAATAAGTT
TATGTCAAATCCAGCTTCCCAGAAACACTAATAATTAAGTACATCAATGTACTAAATAAATCATTAGTTGCACC
CATGGGGAAGATTGIGTTACTGCCCTTCACAGTGAAAAAAGAAAAATCTTTCATTTTTTAAATTAGGAGATGTT
ACGTAACCTGGCACTTTAGTAGTGATACACTAGCATTAGTTTATACACCCTTTTGCCGCTGGGGAATTCAAGT
TGAAATGTCCCTCAATCATATAGGTCTGGAATACATCTTTCATTACATAATTTCTGCTCAGATAATTGAATAGTTT
GCCATCGAGATTATTTTCATTTATACTATAAAACAAAAGCAAACCTAGTCCAGTTTAAATTTTGTACTTAGAATA
TTGCACATTTTCTATATATGAGTTATTCAGATTAGTATCTATGTAGGTTTCAGTCAGATCCAACCATGGATTTCGAG
GTATTATACTGTATAACCCTACAAAATACATAGAAGTATTATTTGCCCTTCATAATAGAACCCAAGAGTCTGTTTC
AATTTATGAATTCAGTATTTGCACCGAGATTTTGATTCCCAAAGTTTGGAAAAAATGACAAAACAACGAGGGAA
GAAGGAACCAGACCTTAGTGCCACATATTTTCTCTTGGGGTTGTAAGGTAGTCTCCTGCTTTCAGAACACTTT

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FIGURE 2036B

ATTATATTTCACTTATAGACCTGATTTTCTGTGTCAAAGTATAATTCTCATGCTGAAGCTGTAGCCTAAAAAGCC
AAAAGAAAGTTGTCTTCATTGTACAAACATATTCATCACTTTAACAATAAGGGAACAAAATTTAGTATTCAAGCT
GAGTGAGAATACTGTTTCAATGAGCATGTCCCTAAGATAAACCAGAATTGGCAGTTAATTTAGGCGTCTAGAAAA
TCTCAGTTCCCACCAGTAAAATTATCCTGAGTAGCTAATGCACCTTGAGAAAAATCTGGCATACTGAATAAATAA
CATTAACTTGGGAGCCAAGAGCTGGGTAAGCCTTACCTTTAGACTACTCTGTGACTACAGAAATAAAGCCAGCAC
TTTTGGAATAATAAGCCTTCACTTGTCAGTATCATAAAGAGTATTGCCCACTGAACCTTGCTCCCACTGGTTT
AATAGTTACTTATTTCTGCCTAAGCACTCACCTTCCGATTTTACCCAAGTATATATATAGGATAGAAAAAATGC
ATTATATTTGAGAGCTACTTCGCCCAAATTACAAAATGAGTGTTTTTAGATTCAAGTGACAGTAAAAGGATTTGT
TCCCTTCAGTGACTTGAGTGTTTTAGTTATGCATAAGTATTTCTAGCAAAGGAAGGGTAGAAAGGAATTGAAAAT
TAATTTACACTAGTTGCTACTTGGAATAAAGGGCTTTTTGAGGGGGGTATGGATATTAAATGTTTTCGTTATAT
ACTTATCCCTATTAAAACAGGCAGTTGTTTCTTTGAATATGCCTAAATAACAGTATTCTTAAAATCTGACAGACA
AGTAACATGTCAATTACTTGATATTCCTTGTCTCCAGTACCACAGGCCACTCTTGACATCCCATGTTTGCCTGGA
TAAAGTTCCTCATTTCAAACAGTATACATACTTCTTTGCAGTTCATTATAGTAAGGCTTAACCTGTAAACAGTAT
CTGATGGCCACCTATAAATAAAATTCAGCATTCTATTTTAATAATTTGTATGCCACCAATTTGTATTATTTGT
CTCAATAAAATACTTAGTCATCAATGC

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FIGURE 2037

CTCCCCGCGCCGCCCGCGCAGGCGCCCCCGCCCCGCCGTCGCGCGCGCGCAGCCAGGAGCCGCTGCACCAATGC
CCCCCATAGATGCGGACCTCAAGCTCGACTTCAAGGATGTCCTGCTCCGACCTAAGCGGAGCAGCCTCAAGAGCC
GAGCCGAGGTGGATCTTGAACGCACCTTCACGTTTTCGAAATTCAAAGCAGACCTACTCAGGGATTCCCATCATCG
TGGCCAACATGGACACTGTGGGCACGTTTGAGATGGCAGCCGTGATGTCACAGCACTCCATGTTTACAGCAATTC
ATAAGCATTACTCCCTGGATGACTGGAAGCTCTTTGCCACAAATCACCCAGAATGCCTGCAGAATGTAGCCGTGA
GTTTCAGGCAGTGGGCAGAATGATCTGGAAAAGATGACCAGCATCCTGGAAGCTGTGCCACAGGTTAAGTTTATTT
GCCTGGATGTGGCCAATGGGTATTCAGAACTTTTGTGGAATTCGTGAACTTGTCCGTGCCAAATTTCTGAAC
ACACCATTATGGCAGGGAACGTGGTGACAGGAGAAATGGTAGAAGAGCTTATTCTTTCCGGAGCAGATATCATCA
AAGTGGGAGTTGGACCAGGTTCTGTGTGCACCACCCGCACCAAGACGGGAGTGGGGTACCCCGAGCTGAGTGCCG
TCATTGAGTGTGCCGACTCTGCCCATGGCCTGAAGGGCCACATCATCTCTGATGGAGGCTGTACGTGTCCAGGGG
ATGTCGCCAAAGCCTTTGGAGCTGGAGCAGATTTTGTATGCTGGGAGGAATGTTTTGGGGTCATACGGAGTGTG
CTGGAGAAGTGTGTTGAGAGGAACGGACGGAAGCTCAAGCTCTTCTACGGGATGAGCTCTGACACCGCCATGAACA
AGCACGCAGGAGGAGTTGCTGAGTACAGAGCCTCTGAGGGTAAGACTGTGGAAGTTCCCTTACAAAGGAGATGTGG
AAAACACTATCCTGGATATTCTCGGGGGGACTGAGGTCCACGTGCACCTACGTGGGGGCCGCCAACTCAAGGAGC
TCAGCAGGAGGGCAACATTATCCGGGTGACCCAGCAGCACAAACACCGTGTTTCAGCTTAACCCTGGGGACAAAGCA
GCGTCTGGCTCGAGTGAAGCGTCCAAACCTGCTTTTCCCATCTCCCCCAAGTCTGTTCCGTCAGAGCTTCTGG
CTGCTCCTGAATGGTGAATGCTGTGTCTCTCTCTCTCTGCTGCTGCTGGAGGCTTCGGGGCTCTCCCGCCT
GCCTTCTCGGGGCCAGACGCAAGGCACCGATTGGGCCAACATCAGAGCCCTGCTGCCCAGAACTCATAACCTCA
TTGTTCAAACCAACACTTGCACCTTTCTCTTTTCTCTCTCTCTCCCTTTCTTTGTTTTTCTTTCTTTTTTAA
AAGAAGATGGTTTCACTTTAATATAATGCTATTATCTT

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FIGURE 2038

MPRIDADLKLDKDVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDTVGTFEMA AVMSQHSMFTA
IHKHYSLDDWKL FATNHPECLQNVAVSSGSGQNDLEKMTSILEAVPQVKFICLDVANGYSEHFVEFVKLVRAKFP
EHTIMAGNVVTGEMVEELILSGADI IKVGVGPGSVCTTRTKTGVGYPQLSAVIECADSAHGLKGHIISDGGCTCP
GDVAKAFGAGADFVMLGGMFSGHTECAGEVFERNGRKLKLFYGMSSDTAMNKHAGGVAEYRASEGKTVEVPYKGD
VENTILDILGGLRSTCTYVGA AKLKELSRRATFIRVTQQHNTVFS

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FIGURE 2039A

GTTTTACTAAAGTGAATTTTTTTTTGTTTGCTTCGTTTCGTTCTTTGGCTCTTTTTTTTTTCCCTTCCCAATTTTCGGAT
TTATTTCAAGGCGAATCTGGCTTTGGGGGAAGAGGAAGAAAAGTCGGATTACAAGATCAACCACCACCAACAACA
ATAAAAACCACCAGGATATTTTTTTGCAAATTTCTGACGGCTTTAAATTCATGAAGCAATTGTCCCCTTTTGCAA
TCAGCATTTGGATCTCAGAAATGAGCAAGGAAAGACCCAAGAGGAATATCATTGAGAAGAAATACGATGACAGTGA
TGGGATTCCGTGGTCAGAAGAACGGGTGGTACGTAAAGTCCTTTATTTGTCTCTGAAGGAGTTCAAGAATTTCCCA
GAAGAGGCAGCATGCGGAAGGCATTGCTGGGAGCCTGAAAACCTGTGAATGGGCTCCTTGGTAATGACCAGTCTAA
GGGATTAGGACCAGCATCAGAACAGTCAGAGAATGAAAAGGACGATGCATCCCAAGTGTCTCCACTAGCAACGA
TGTTAGTTCTTCAGATTTTGAAGAAGGGCCGTCGAGGAAAAGGCCAGGCTGCAAGCACAAAGGAAGTTTGCTCA
GTCTCAGCCGAATAGTCCCAGCACAACTCCAGTAAAGATAGTGGAGCCATTGCTACCCCTCCAGCTACTCAGAT
ATCAGACCTCTCTAAAAGGAAGCCTAAGACAGAAGATTTTCTTACCTTTCTCTGCCTTCGAGGTTCTCCTGCGCT
GCCCAACAGCATGGTGTATTTTGAAGCTCTCAGGATGAGGAGGAAGTCGAGGAGGAAGATGATGAGACAGAAGA
CGTCAAAACAGCCACCAACAATGCTTCATCTTCATGCCAGTCGACCCCCAGGAAAGGAAAAACCCACAAAACATGT
TCACAACGGGCATGTTTTCAATGGTTCCAGCAGGTCAACACGGGAGAAGGAACCTGTTCAAAAAACAAAAGCAA
AGAGGCCACTCCCGCAAAGGAGAAGCACAGCGATCACGGGCTGACAGCCGCCGGGAGCAGGCTTCAGCTAACCA
CCCCGAGCGGGCCCCCTCCACGGGTTCCTCGGCCAAGGGGCTTGCTGCCACCCATCACCACCCCCCTCTGCATCG
GTCGGCTCAGGACTTACGGAACAGGTTTCTAAGGTAAACGGAGTCACTCGAATGTCATCTCTGGGTGCAGGTGT
AACCAGTGCCAAAAGATGCGCGAGGTTCAGACCTTCACCATCCAAAACCTGTGAAGTACACTGCCACGGTGACGAA
GGGGGCTGTACATACACCAAAGCCAAGAGAGAACTGGTCAAGGACACCAAACCCAATCACCACAAGCCCAGTTC
CGCTGTCAACCACACAATCTCAGGGAACCTGAAAGTAGCAATGCAAAAACCCGCAAACAGGTGCTATCCCTCGG
GGGGGCTCCAAGTCCACTGGGCCCCGCGTCAATGGCCTCAAGGTCAAGTGCAGGTGGAACCCAAAGTCATGCAC
TAAGGAGGTGGGGGGGGCGGAGCTGCGGGAGGGCCTGCAGCTGCGGGAGGGGCTGCGGAACCTCAAGAGGAGACT
GGAAGAGGCACACCAGGCGGAGAAGCCGAGTCGCCCCCAAGAAGATGAAAGGGGCGGCTGGCCCCGCGGAAGG
CCCTGGCAAGAAGGCCCGGCGGAGAGAGGTCTGCTGAACGGACACGTGAAGAAGGAAGTGCCGGAGCGCAGTCT
GGAGAGGAATCGGCCGAAGCGGGCCACGGCCGGGAAGAGCACGCCAGGCAGACAAGCACATGGCAAGGCGGACAG
CGCTCTGTGAAAATCGTTCTACCTCGCAACCCGAGTCCGTGCACAAGCCGAGGACTCGGGCAAGGCGGAGAA
GGCGGGCGGCAAGGCCGGGTGGGCGGCCATGGACGAGATCCCCGTCTCAGGCCCTCCGCCAAGGAGTTCCACGA
TCCGCTCATCTACATCGAGTCGGTCCGCGCTCAGGTGGAGAAGTTCGGGATGTGCAGGGTGATCCCCCTCCGGA
CTGGCGGCCCCGAGTGCAAGCTCAACGATGAGATGCGGTTTGTACGCAGATTTCAGCACATCCACAAGCTGGGCGG
GCGCTGGGGCCCCAACGTGCAGCGGCTGGCCTGCATCAAGAAGCACCTCAAATCTCAGGGCATCACCATGGACGA
GCTCCCGCTCATAGGGGGCTGTGAGCTCGACCTGGCCTGCTTTTTCCGGCTGATTAATGAGATGGGCGGCATGCA
GCAAGTGACTGACCTCAAAAAATGGAACAACTAGCAGACATGCTGCGCATCCCCAGAAGTGGCCAGGACCGGCT
GGCCAAGCTGCAGGAGGCTACTGCCAGTACCTACTCTCCTACGACTCCCTGTCCCCAGAGGAGCACCGGCGGCT
GGAGAAGGAGGTGCTGATGGAGAAGGAGATCCTGGAGAAGCGCAAGGGGCGGCTGGAAGGCCACACAGAGAACGA
CCACCACAAGTTCCACCCTCTGCCCCGCTTCGAGCCCCAAGAATGGGCTCATCCACGGCGTGGCCCCAGGAACGG
CTTCGCGCAGCAAGCTCAAGGAGGTGGGCCAGGCCAGTTGAAGACTGGCCGGCGGCGACTCTTCGCTCAGGAAAA
AGAAGTGGTCAAGGAAGAGGAGGAGGACAAAGGCGTCTCAATGACTTCCACAAGTGCATCTATAAGGGAAGGTC
TGTTTCTCTAACAATTTTTATCGAACAGCGAGGAATATCATGAGCATGTGTTTCAGCAAGGAGCCTGCCCCAGC
CGAAATCGAGCAAGAGTACTGGAGGCTAGTGGAAGAGAAGGACTGCCACGTGGCAGTGCATGCGGCAAGGTGGA
CACCACACTCACGGCAGTGGATTCCCAGTAGGAAAATCAGAACCTTTTCGAGGCATGGATGGAACCTCACCCT
CCTCCCCAATAACACAGGCTCCATCCTGCGTCACCTCGGTGCTGTGCTGGAGTGACTATTCCCTGGCTAAATAT
TGGCATGGTCTTTTCTACCTCATGCTGGTCTCGAGACCAAAATCACCTTCCATACATTGACTACTTACACACTGG
TGCTGACTGCATTTGGTATTGCATTCTGCTGAGGAGGAGAACAAGCTGGAAGATGTGGTCCACACCCTGCTGCA
AGCCAATGGCACCCCAGGGCTGCAGATGCTGGAAGCAACGTCATGATCTCCCCGGAGGTGCTGTGCAAGAGGG
GATCAAGGTGCACAGGACCGTGCAGCAGAGTGGCCAGTTTGTGCTGCTGCTTCCCGGGATCCTTTGTGTCAAAGT
GTGCTGTGGGTACAGCGTGTCTGAAACCGTGCACCTTGTACACCCAGTGGACAAGTATGGGCTTTGAGACCGC
CAAGGAAATGAAGCGTCGCCATATAGCTAAGCCATTCTCCATGGAGAAGTACTCTACCAGATTGCACAAGCAGA
AGCAAAAAAGAAAACGGTCCCACTCTCAGTACCATCTCAGCCCTCCTGGATGAGCTCAGGGATACAGAGCTGCG
GCAGCGCAGGCAGCTGTTTCGAGGCTGGCCTCCACTCCTCCGCACGCTATGGCAGCCACGATGGCAGCAGCAGGT

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FIGURE 2039B

GGCGGACGGGAAGAAAAAGCCTCGAAAGTGGCTGCAGTTGGAGACGTCAGAGAGGAGGTGTCAGATCTGCCAGCA
CCTGTGCTACCTGTCCATGGTGGTACAAGAGAACGAAAACGTCGTGTTCTGTCTGGAGTGTGCTCTGCGCCACGT
GGAGAAACAGAAGTCTGCGGAGGGCTGAAGTTGATGTACCGCTACGATGAGGAACAGATTATCAGTCTGGTCAA
TCAGATCTGCGGCAAAGTGTCTGGTAAAAACGGCAGCATTGAGAACTGTCTCAGTAAACCCACACCAAAAAGAGG
TCCCCGCAAGAGAGCGACAGTGGACGTGCCCCCTCCCGTCTGTGAGCCTCCAGTTCATCCAAAAGTGCTTCGAG
CTCATCATGAAGATGCCAACGCCCCGTGGTTCGATTTATATATATTTTTTTTGTAAATTATTATATTCTAGTTTGGAGT
ACTTGCTGTAGGATTCAAGCTGTCTTTGCACTAGCTCTAAAGAAGATTTTTCTTCTGGTTTTAGAGAACTAATTTT
GTTTTAGCATTAAACTGTTGAACTTTTTTTTTGTACTTAGAAAACCTAGATACTGCAGTCAGATTTTGAAAACGTC
CGTATAGTCACTGTTTTAAAAAACCCCGGAGGGGCTGTATTAATTTGTATTGCCCCATGGCTGACAAAAGCCTTTT
TTTTTGGTTTTTGATTTTTTTTTTTTTTTTGTAACTGTTGGGGGGAAAAAGGCTTTTTTAACCCATTTTTGAAGAGGGTG
AAGTTTGGAGAACAATTTAAAAACCATCAGTCATGTGAGCAGATTTTTTTAGAAGGGATAGGAGACACACGCGCA
CACACACACACACAGAACTTGAAATGGCTTTGCTTTGGCTGTGCTCTTCTGCCGTGTGCCAGATGAGCTTGTG
ATCTGGGAAGCCGGGGCACCCCCGTTTTGTTTCTCTGGGCGGTTGTGGCAGCTGAAGGCGGACGTTGTTTCCTAA
CCATAGGTGGAACGAGGAGACGGGAGCGAGTGGGCTCTCCACCAGCACATCACTATGCATCTGTTCCAGGAAAGA
AGAAAAGCGAGCGAGGAAGACGGAAAAGACTGCCTGCCTTGGAGGGGTCACATGAGGGAGACCTGTGCCTGATTT
CATTAGGAAATCCATTCTGTTATTTTTTGGTGCTGTTGGCTACTTTATCAAAAAACCCTTCAATAGCATCCTTAA
GATTTAAAAAAGGAAAAAAGTATGGAAGCCGTAAGTGCTTCTTTGTTCATCGACGTGCA
ATCTTTCTAACATTCCATCTCCATCTCACCGCTTCTTGTGTTGACACCTTCACAAGTCAGCATTAACTTTCTTTT
AAAACCTGTTTTCATTTATGATCATGTAGAGAGCCACTAGGAGGCCTGCAGTTATTTTTGAATGTGAAAATGCATT
TGCGTTTCATCTTGTCTATTTTTTCTCTTCATGTTGTAACAAAAAGGAAAAAAGAAAAAATCCCATCCCTTTT
GTACATATGCCTGTAAATTGTTTTAAATACTTGAGCCTTTTTCTCGGTGGGGGGTGGGGAGGGGGGTGAGAAGAC
AAGATGAAGAAAAGCCTTACATTTAGTTTCTTCATCGGTTGGATTGGATGCTTACAGGGTTTTTCTTGTAAACAT
TTATAAGTGCTGCTTACATCACTGAACAACAACAAAAAATAATAATGGAGTAGCTGTTGCCCTTCTCCGGTTGT
GTGTACAGTATGTGTGGAATAAAAAAGGGAACTGTTTTCAACAGCTGTTCTTTGTTTCATAATTGGATTTCATCA
ATCCCGTAGCTACCCATATTGCACTGAGCTTGCCAGTGGTGACTGCCAGGAACGTCCTATGATCCACTTTGTTGG
TTGTTGTTGCAGAAGACTGAACTGTTTTGGAATATTTAACAATTACAGAAACAGTCAAGTGTTTTCCAATGTGGT
TGTCGGTTTTCTATGGCCTTGCTGTGTACTTTCCCTCTTTTTTGACAGTAACTTCTGCCTATGGCTTACAGTTTG
ACATTTAATTTATTAGCGCTGCTCTGCACCCCTCCCTTGGGAGGGAGACTTCATGTGGTTTATTGCGAGTTTTTT
GTTTACTTTTTCAGTTTTGTACTACAAGTTTTAATAATAAAAAACAAAGTTTTTTTGGGA

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FIGURE 2040

MSKERPKRNIIQKKYDDSDGIPWSEERVVRKVLYLSLKEFKNSQKRQHAEGIAAGSLKTVNGLLGNDQSKGLGPAS
EQSENEKDDASQVSSSTNDVSSSDFEEGPPSRKRPRLOAQRKFAQSQPNPSTTPVKIVEPLPPPPATQISDLSKR
KPKTEDFLTFLCLRGSPALPNSMVYFGSSQDEEEVEEEDDEDEDVKTATNNASSSCQSTPRKGKTHKHVHNGHVF
NGSSRSTREKEPVQKHKSKEATPAKEKHSDDRADSREQASANHPAAAPSTGSSAKGLAATHHHPPPLHRS AQDLR
KQVSKVNGVTRMSSLGAGVTSAKKMREVRPSPSKTVKYTATVTKGAVTYTKAKRELVKDTKPNHHKPSSAVNHTI
SGKTESSNAKTRKQVLSLGGASKSTGPAVNGLKVSGRLNPKSCTKEVGGRQLREGLQLREGLRNSKRRLEEAHQ
EKPQSPPKMKGAAGPAEGPGKKAPAERGLLNHGVKKEVPERSLERNRPKRATAGKSTPGRQAHGKADSASCENR
STSQPESVHKPQDSGKAEGGGKAGWAAMDEIPVLRPSAKEFHDPLIYIESVRAQVEKFGMCRVIPPPDWRPECK
LNDEMRFVTQIQHIHKLGRRWGPNVQRLACIKKHLKSQGITMDELPLIGGCELD LACFFRLINEMGGMQQVTDLK
KWNKLADMLRIPRTAQDRLAKLQEAYCQYLLSYDSLSP EHRRLKEVLEMEKEILEKRKGPLEGHTENDHHKFHP
LPRFEPKNGLIHGVA PRNGFRSKLKEVGQAQLKTGRRRLFAQEKEVVKEEEDKGV LND FHKCIYKGRSVSLTTF
YRTARNIMSMCFSKEPAPAEIEQEYWR LVEEKDCHVAVHCGKVD TNTHGSGFPVGKSEFFSRHGWNLT VLPNNTG
SILRHLGAVPGVTIPWLNIGMV FSTSCWSRDQNHLPYIDYLHTGADCIWYCIPAE EENKLEDV VHTLLQANGTPG
LQMLESNVMISPEVLCKE GIKVHRTVQQSGQFVVC FPGSFVSKVCCGYSVSETVHFATTQWTS MGFETAKEMKRR
HIAKPF S MEKLLYQIAQAEAKKENGPTLSTISALLDEL RDTELRRRQLFEAGLHSSARYGSHDGSSTVADGKKK
PRKW LQLETSE RRCQICQHLCYLSMVVQENENNVFCLECALRHVEKQKSCRG LKLMYRYDEEQIISLVNQICGKV
SGKNGSIENCLSKPTPKRGPRKRATVDVPPSRLSASSSSKSASSSS

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FIGURE 2041

GCCCATGCCCGCCCCCGCGTAGACGCTGTGGTGTGTACGGCCGCAGCGGGGCAGGGGGTCTCCGAGGCCGCTGCG
GCACGTAATCAGAGAGCTTTCAAAGCATCACTCATGAACTGACTTGTTTAGAGCCCTCCCCTGCTCCCTGCGC
TGCACTGACAATGCCATCTATACCCCTCAGCATGACCCAGGAGGAACATATTTTCATTCAATCACTCTTGGAAG
GCACCCAGAATTGCTAACCAAATTCTGGCTCCCTTTGAAATGAGGCCTGTATTTGTGGAGGTCACGGGACATACA
GGTGTTCACATCATCCTCTGTGAGATGAAGAAGAGTTGCATGCAGCAGTTCATTAAAGATCGATGGCAAGGTCCGA
ACTGACAAAACCTACCCTGCTGGATTCATGGATGTCATCAGCATTGACAAGATGGGAGAGAATTTTGTCTGATC
TATGACACCAAGGGTCACTTTGCTGTACATTGTATTACACCTGAGGAAGCCAAAATTGGTGTGATCACCAACAGA
GAGAGGCACCTGGATCTTTTGACGTGTTTCACATGAAAGATGCCAATGGCCACAGCTTTGCCACTCACTTTCC
AACATTTTGTATTATTGGCAAGGGCAACAAACCATGGATTTCTCTTCCTGA

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FIGURE 2042

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG
AAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG
ATTGCGTGTTCGCCGTGGTGGCCGTAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGTT
GGACGCCACTGTGGGGCTCTGAGGGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAG
GTTATCCTCATTGATCCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCAC
AAGCACAGGGAGATGCGTGGGCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAAGGGCCATAAGTTCAC
CACACTATTGGTGGCTCTCGCCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATAT
AAGTAAAGTCTGTAAAATTCATACTTAATAAA

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FIGURE 2043

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRPTRPDKARRLGYKAKQGYVIYRIRVRRGGRNQLK
FARSLQSVAEERVGRHCGALRVLNSYWVGEDSTYKFFEVLIDPFHKAIRNPDTQWITKPVHKKHREMRLTSAG
RKSRLGKGHKFHHTIGGSRRAAWRRRNTLQLHRYR

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FIGURE 2044A

CCGACCAACACCAACACCCAGCTCCGACGCAGCTCCTCTGCGCCCTTGCCGCCCTCCGAGCCACAGCTTTCTCTCC
CGCTCCTGCCCCCGGCCCGTCGCCGTCTCCGCGCTCGCAGCGGCCTCGGGAGGGCCAGGTAGCGAGCAGCGACC
TCGCGAGCCTTCCGCACTCCCGCCCGGTTCCCGGCCGTCCGCTATCCTTGCCCCCTCCGCTTTCTCCGCGCC
GGCCCCGCTCGCTTATGCCCTCGGCGCTGAGCCGCTCTCCCGATTGCCCGCCGACATGAGCTGCAACGGAGGCTCC
CACCCGCGGATCAACACTCTGGGCCGATGATCCGCGCCGAGTCTGGCCCCGACCTGCGCTACGAGGTGACCAGC
GGCGGGGGGGGACCAGCAGGATGTACTATTCTCGGCGCGGCGTGATACCGACCAGAAGTCCGACGGCTACTGT
CAAACCGGCACGATGTCCAGGCACCAGAACCAGAACCATCCAGGAGCTGCTGCAGAAGTCTCCGACTGCTTG
ATGCGAGCAGAGCTCATCGTGACGCTGAATTGAAGTATGGAGATGGAATACAAGTACTCGGAGTCCGAGATTG
GATGAGTGTGTTTGGCCAGGCCAATGACCAATGGAATCCTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGC
CAGCCCTGTGATGCTTACCAGAAAAGGCTTCTTCAGCTCCAAGAGCAAATGCGAGCCCTTTATAAAGCCATCAGT
GTCCCTCGAGTCCGACGGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTGAGAGTGGCTCTGGCTGGGATGAG
TTCACCAACATGTACACAGTGAATGTTTGGGGTGGATGAGGCAGCAAAGGGCGGAGATGGACATGGTGGCCTGG
GGTGTGGACCTGGCCTCAGTGGAGCAGCACATTAACAGCCACCGGGGCATCCACAAGTCCATCGGCGACTATCGC
TGGCAGCTGGACAAAATCAAAGCCGACCTGCGCGAGAAATCTGCTATCTACCAGTTGGAGGAGGAGTATGAAAAC
CTGCTGAAAGCGTCTTTTGGAGAGGATGGATCACCTGCGACAGCTGCAGAACATCATTACAGGCCACGTCCAGGGAG
ATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGACAAGAACACCAACATCGCTCAG
AAACAGGAGGCCTTCTCCATACGCATGAGTCAACTGGAAGTTAAAGAAAAAGAGCTCAATAAGCTGAAAACAAGAA
AGTGACCAACTTGTCTCAATCAGCATCCAGCTTCAGACAAAATTGAGGCCTATATGGACACTCTGCAGACCGCAG
TGGAGTTGGATTCTTCAGATCACCAAGTGCATTGATGTTTCTGTAAGAAAAATGCTGCCTACTTTTCAGTTTTTT
GAAGAGGCGCAGTCTACTGAAGCATACCTGAAGGGGCTCCAGGACTCCATCAGGAAGAAGTACCCCTGCGACAAG
AACATGCCCTGCGACACCTGCTGGAACAGATCAAGGAGCTGGAGAAAGAACGAGAGAAAATCCTTGAATACAAG
CGTCAGGTGCAGAACTTGGTAAACAAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGC
AATAAACCCATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGCATAAGGGGGATGAGTGT
ATCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCCGGGAGGCGTTGACATGCTTGTTCCCTCT
GTGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTGGACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCC
ATCTTGGCTCTGTGGAACAGCTCTACATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGCATGATTGACATA
GAGAAGATCAGGGCCATGACAATCGCCAAGCTGAAAACAATGCGGCAGGAAGATTACATGAAGACGATAGCCGAC
CTTGAGTTACATTACCAAGAGTTTCATCAGAAATAGCCAAGGCTCAGAGATGTTTGGAGATGATGACAAGCGGAAA
ATACAGTCTCAGTTCACCGATGCCCAGAAGCATTACCAGACCTGGTCAATCAGCTCCCTGGCTATCCCCAGCAC
CAGACAGTGACCACAAGTGAATCACTCATGGAACCTGCCAAGATGTCAACCATAATAAAGTAATTGAAACC
AACAGAGAAAATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAGATTGCGAGGCAGATAGAGCACTGC
GAGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGACCAGGGATCTTCTCACCACATCAGAGTGAATAATTAAC
GAGCTTAAGAGTGTGAGAATGATTACAAGCAATTGCTGAGGTTCTCAACCAGCTTAAAGATATGCTTGCCAAC
TTCAGAGGTTCTGAAAAGTACTGCTATTTACAGAATGAAGTATTTGGACTATTTAGAAACTGGAAAATATCAAT
GGTGTACAGATGGCTACTTAAATAGCTTATGCACAGTAAGGGCACTGCTCCAGGCTATTCTCCAAACAGAAGAC
ATGTTAAAGGTTTATGAAGCCAGGCTCACTGAGGAGGAACTGTCTGCCTGGACCTGGATAAAGTGAAGCTTAC
CGCTGTGGACTGAAGAAAATAAAAAATGACTTGAACCTGAAGAAGTCGTTGTTGGCCACTATGAAGACAGAATA
CAGAAAGCCCAGCAGATCCACTCTCAGACTTCACAGCAGTATCCACTTATGATCTGGACTTGGGCAAGTTCGGT
GAAAAAGTCACACAGCTGACAGACCGCTGGCAAAGGATAGATAAACAGATCGACTTTAGGTTATGGACCTGGAG
AAACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAGTGGCTCTATGATGCTAAACGC
CGCCAGGATTCTTAGAATCCATGAAATTTGGAGATTCCAACACAGTCATGCGGTTTTTGAATGAGCAGAAGAAC
TTGCACAGTGAATAATCTGGCAAACGAGACAAATCAGAGGAAGTACAAAAAATGCTGAACCTTGCGCCAATTCA
ATTAAGGATTATGAGCTCCAGCTGGCCTCATAACCTCAGGACTGGAACTCTGCTGAACATACCTATCAAGAGG
ACCATGATTACAGTCCCTTCTGGGGTGATTCTGCAAGAGGCTGCAGATGTTTATGCTCGGTACATTGAAGTACTT
ACAAGATCTGGAGACTATTACAGGTTCTTAAGTGAGATGCTGAAGAGTTTGAAGATCTGAAGCTGAAAAATACC
AAGATCGAAGTTTTTGAAGAGGAGCTCAGACTGGCCCGAGATGCCAACTCGGAAAAGTGAATAAGAACAAATTC
CTGGATCAGAACTGCAGAAATACCAGGCAGAGTGTTCAGTTCAAAGCGAAGCTTGGAGCCTGGAGGAGCTG
AAGAGACAGGCTGAGCTGGATGGGAAGTCGGCTAAGCAAAATCTAGACAAGTGTACGGCCAAATAAAGAAGTCT

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FIGURE 2044B

AATGAGAAGATCACCCGACTGACTTATGAGATTGAAGATGAAAAGAGAAGAAGAAAATCTGTGGAAGACAGATTT
GACCAACAGAAGAATGACTATGACCAACTGCAGAAAGCAAGGCAATGTGAAAAGGAGAACCTTGGTTGGCAGAAA
TTAGAGTCTGAGAAAGCCATCAAGGAGAAGGAGTACGAGATTGAAAGGTTGAGGGTTCTACTGCAGGAAGAAGGC
ACCCGGAAGAGAGAATATGAAAATGAGCTGGCAAAGGTAAGAAACCACTATAATGAGGAGATGAGTAATTTAAGG
AACAAGTATGAAACAGAGATTAACATTACGAAGACCACCATCAAGGAGATATCCATGCAAAAAGAGGATGATTCC
AAAAATCTTAGAAACCAGCTTGATAGACTTTCAAGGGAAAATCGAGATCTGAAGGATGAAATTGTCAGGCTCAAT
GACAGCATCTTGCAGGCCACTGAGCAGCGAAGGCGAGCTGAAGAAAACGCCCTTCAGCAAAAAGGCCTGTGGCTCT
GAGATAATGCAGAAGAAGCAGCATCTGGAGATAGAATGAAGCAGGTCATGCAGCAGCGCTCTGAGGACAATGCC
CGGCACAAGCAGTCCCTGGAGGAGGCTGCCAAGACCATTGAGGACAAAAATAAGGAGATCGAGAGACTCAAAGCT
GAGTTTCAGGAGGAGGCCAAGCGCCGCTGGGAATATGAAAATGAACTGAGTAAGGTAAGAAACAATTATGATGAG
GAGATCATTAGCTTAAAAAATCAGTTTGAGACCGAGATCAACATCACCAAGACCACCATCCACCAGCTCACCATG
CAGAAGGAAGAGGATACCAAGTGGCTACCGGGCTCAGATAGACAATCTCACCCGAGAAAACAGGAGCTTATCTGAA
GAAATAAAGAGGCTGAAGAACACTCTAACCAGACCACAGAGAATCTCAGGAGGGTGAAGAAGACATCCAACAG
CAAAAGGCCACTGGCTCTGAGGTGTCTCAGAGGAAAACAGCAGCTGGAGGTTGAGCTGAGACAAGTCACTCAGATG
CGAACAGAGGAGAGCGTAAGATATAAGCAATCTCTTGATGATGCTGCCAAAACCATCCAGGATAAAAACAAGGAG
ATAGAAAGGTTAAACAACCTGATCGACAAAAGAAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTA
CAAAGGTTCCAGTATGACCTGCAGAAAAGCAAACAGTAGTGCGACGGAGACAATAAACAACCTGAAGGTTTCAGGAG
CAAGAACTGACACGCCTGAGGATCGACTATGAAAGGGTTTCCAGGAGAGGACTGTGAAGGACCAGGATATCACG
CGGTTCCAGAACTCTCTGAAAGAGCTGCAGCTGCAGAAGCAGAAGGTGGAAGAGGAGCTGAATCGGCTGAAGAGG
ACCGCGTCAGAAGACTCCTGCAAGAGGAAGAAGCTGGAGGAAGAGCTGGAAGGCATGAGGAGGTGCTGAAGGAG
CAAGCCATCAAAATCACCAACCTGACCCAGCAGCTGGAGCAGGCATCCATTGTTAAGAAGAGGAGTGAGGATGAC
CTCCGGCAGCAGAGGGACGTGCTGGATGGCCACCTGAGGGAAAAGCAGAGGACCCAGGAAGAGCTGAGGAGGCTC
TCTTCTGAGGTGAGGCGCTGAGGCGGCAGTTACTCCAGGAACAGGAAAGTGTCAAACAAGCTCACTTGAGGAAT
GAGCATTTCCAGAAGGCGATAGAAGATAAAAGCAGAAGCTTAAATGAAAGCAAAATAGAAATTGAGAGGCTGCAG
TCTCTCACAGAGAACCTGACCAAGGAGCACTTGATGTTAGAAGAAGAACTGCGGAACCTGAGGCTGGAGTACGAT
GACCTGAGGAGAGGACGAAGCGAAGCGGACAGTGATAAAAATGCAACCATCTTGGAACCTAAGGAGCCAGCTGCAG
ATCAGCAACAACCGGACCCTGGAAGTGCAGGGGCTGATTAATGATTTACAGAGAGAGAGGGAAAATTTGAGACAG
GAAATTGAGAAATTCCAAAAGCAGGCTTTAGAGGCATCTAATAGGATTCAGGAATCAAAGAATCAGTGTACTCAG
GTGGTACAGGAAAGAGAGAGCCTTCTGGTGAAAATCAAAGTCTTGAGCAAGACAAGGCAAGGCTGCAGAGGCTG
GAGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAAACAGGGTGAAACAGCGCCTGGAGTGTGAGAAA
CAGCAAATTCAGAAATGACCTGAATCAGTGGAAGACTCAATATTCCCGCAAGGAGGAGGCTATTAGGAAGATAGAA
TCGGAAAGAGAAAAGAGTGAGAGAGAGAAGAACAGTCTTAGGAGTGAGATCGAAAGACTCCAAGCAGAGATCAAG
AGAATTGAAGAGAGGTGCAGGCGTAAGCTGGAGGATTCTACCAGGGAGACACAGTCACAGTTAGAAACAGAACGC
TCCCGATATCAGAGGGAGATTGATAAACTCAGACAGCGCCCATATGGGTCCCATCGAGAGACCCAGACTGAGTGT
GAGTGGACCGTTGACACCTCCAAGCTGGTGTGTTGATGGGCTGAGGAAGAAGGTGACAGCAATGCAGCTCTATGAG
TGTCAGCTGATCGACAAAACAACCTTGACAAAATATTGAAGGGGAAGAAGTCAGTGGAAGAAGTTGCTTCTGAA
ATCCAGCCATTCTTCGGGGTGCAGGATCTATCGCTGGAGCATCTGCTTCTCCTAAGGAAAATACTCTTTGGTA
GAGGCCAAGAGAAAAGAAATTAATCAGCCCAGAATCCACAGTCATGCTTCTGGAGGCCAGGCAGCTACAGGTGGT
ATAATTGATCCCCATCGGAATGAGAAGCTGACTGTGACAGTGCCATAGCTCGGGACCTCATTGACTTCGATGAC
CGTCAGCAGATATATGCAGCAGAAAAGCTATCACTGGTTTTGATGATCCATTTTCAGGCAAGACAGTATCTGTT
TCAGAAGCCATCAAGAAAATTTGATTGATAGAGAAAACCGGAATGCGCCTGCTGGAAGCCCAGATTGCTTCAGGG
GGTGTAGTAGACCTGTGAACAGTGTCTTTTTGCCAAAAGATGTGCGCTTGGCCCGGGGGCTGATTGATAGAGAT
TTGTATCGATCCCTGAATGATCCCCGAGATAGTCAGAAAACCTTTGTGGATCCAGTCACCAAAAAGAAGGTCAGT
TACGTGCAGCTGAAGGAACGGTGCAGAATCGAACCACATACTGGTCTGCTCTTGCTTTTCAGTACAGAAGAGAAGC
ATGTCTTTCCAAGGAATCAGACAACCTGTGACCGTCACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACT
GTCAATGAACTGGAATCTGGTCAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCCTCCAGGGTTCA
AGCTGCATAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTTATGAGGCCATGAAAATTGGCTTA
GTCCGACCTGGTACTGCTCTGGAGTTGCTGGAAGCCCAAGCAGCTACTGGCTTTATAGTGGATCCTGTTAGCAAC

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FIGURE 2044C

TTGAGGTTACCACTGGAGGAAGCCTACAAGAGAGGTCTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCA
GAACGAGCTGTCACTGGGTATAATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAA
CTCATCGAAAAGGGCCACGGTATTTCGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAG
AGCCATCGTTTTACCACTTGACATAGCATATAAGAGGGGCTATTTCAATGAGGAACTCAGTGAGATTCTCTCAGAT
CCAAGTGATGATACCAAAGGATTTTTTGACCCCAACACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGA
TGCATTAAGGATGAGGAAACAGGGCTCTGTCTTCTGCCTCTGAAAGAAAAGAAGAAACAGGTGCAGACATCACAA
AAGAATACCTCAGGAAGCGTAGAGTGGTCATAGTTGACCCAGAAACCAATAAAGAAATGTCTGTTTCAGGAGGCC
TACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAACTGTGTGAGCAGGAATGTGAATGGGAAGAAATAACC
ATCACGGGATCAGATGGCTCCACCAGGTGGTCTGGTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGAT
GCTATTGACAAGGGCCTTGTTGACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTT
GCTGACATGATCTCCTTGAAAAATGGTGTGCGCACAGCAGCAGCATGGGCAGTGGTGTGAGCGATGATGTTTTT
AGCAGCTCCCGACATGAATCAGTAAGTAAGATTTCCACCATATCCAGCGTCAGGAATTTAACCATAAGGAGCAGC
TCTTTTTTCAGACACCCTGGAAGAATCGAGCCCCATTGCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCC
ATTACAGAAGGTATAGAGCGGGGCATCGTTGACAGCATCACGGGTGAGAGGCTTCTGGAGGCTCAGGCCTGCACA
GGTGGCATCATCCACCCAACCACGGGCCAGAAGCTGTCACTTCAGGACGCAGTCTCCAGGGTGTGATTGACCAA
GACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAGGGTGTGAAGGGAAAGAAGAAGATG
TCAGCAGCAGAGGCAGTGAAAGAAAATGGCTCCCGTATGAGGCTGGCCAGCGCTTCTGGAGTTCCAGTACCTC
ACGGGAGGTCTTGTTGACCCGGAAGTGCATGGGAGGATAAGCACCGAAGAAAGCCATCCGGAAGGGGTTTCATAGAT
GGCCGCGCCGCACAGAGGCTGCAAGACACCAGCAGCTATGCCAAAATCCTGACCTGCCCCAAAACCAATTAAAA
ATATCCTATAAGGATGCCATAAATCGCTCCATGGTAGAAGATATCACTGGGCTGCGCCTTCTGGAAGCCGCTCC
GTGTCGTCCAAGGGCTTACCCAGCCCTTACAACATGTCTTCCGGCTCCGGGGTCCCGCTCCGGCTCCCGCTCGGGA
TCTCGCTCCGGATCTCGCTCCGGGTCCCGCAGTGGGTCCCGGAGAGGAAGCTTTGACGCCACAGGGAATTCTTCC
TACTCTTATTCTACTCATTTAGCAGTAGTTCTATTGGGCACTAGTAGTCAGTTGGGAGTGGTTGCTATACCTTG
ACTTCATTTATATGAATTTCCACTTTATTAAATAATAGAAAAGAAAATCCCGGTGCTTGCACTAGAGTGATAGGA
CATTCTATGCTTACAGAAAATATAGCCATGATTGAAATCAAATAGTAAAGGCTGTTCTGGCTTTTTATCTTCTTA
GCTCATCTTAAATAAGCAGTACACTTGGATGCAGTGCCTCTGAAGTGCTAATCAGTTGTAACAATAGCACAAATC
GAACTTAGGATTTGTTTCTTCTCTGTGTTTCGATTTTTGATCAATTTCTTAATTTTGAAGCCTATAATACA
GTTTTCTATTCTTGGAGATAAAAAATTAAATGGATCACTGATATTTTAGTCATTCTGCTTCTCATCTAAATATTTT
CATATTCTGTATTAGGAGAAAAATTACCTCCAGCACCAGCCCCCTCTCAAACCCCCAACCCAAAACCAAGCAT
TTTGAATGAGTCTCCTTTAGTTTCAGAGTGTGGATTGTATAACCAATATACTCTTCGATGTACTTGTGTTGTTT
GGTATTAATTTGACTGTGCATGACAGCGCAATCTTTCTTTGGTCAAAGTTTTCTGTTTATTTTGCTTGTCATA
TTCGATGTACTTTAAGGTGTCTTTATGAAGTTTGCTATTCTGGCAATAAACTTTTAGACTTTT

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FIGURE 2045

TCCAAGAAGAGGAAGTTTGTCACTGATGGCATCTTCTAAGCTGAAATGAATGAGTTTCTTACTCAGGAGCTGGCT
GAAGATGGCTACTCTGGAGTTGAGATGCGAGTTACACCAACCAGGACAGAAATCATTGTCTTAGCCACCAGAACA
CAGAATGTTCTTGGTGAGAAGGGCCGGCGGATTTCGGGAACTGACTGCTGTAGTTCAGAAGAGGTTTGGCTCTCCA
GAGGGCAGTGTAGAGCTTTATGCTGAAGAGGTGGCCACTAGGGGTCTGTGTGCCATTGCCCAGGCAGAGTCTCTG
CCTTACAAACTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGCTATGGTGTGTCGCGGTTTCATCATGGAAACTGGG
GCCAAAGGCTGTGAGGTCGTGGTGTCTGGGAAACTCTGAGGACAGAGAGCTAAATCCATGAAGTTTGTGGACGGC
CTGATGATCCACAGCAGAGACCCTGTAACTACTACGTTGACACTGCTGTGCGCCATGTGTTGCTCAGACAGAGT
GTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCAAAGATGAGATAACTGCCCACCACCCCATCTCA
GAACAGAAGGGTGGGA

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FIGURE 2046

MNEFLTQELAEDGYSGVEMRVTPTRTEIIVLATRTQNVLGEKGRRIRELTAVVQKRFGSPEGSVELYAEVATRG
LCAIAQAESLPYKLLGGLAVRRACYGVS RFIMETGAKGCEVVVSGKL

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FIGURE 2047

ATGACCAGGTTTCATCATCGCCTCTCTCCTCCCCCTCTACCTTTCTCCCTGGTTTCCATAGAGCAGAAATCTGGGTC
AAGGTGGAGTGCATTGGATCAAGAGTTGCTATGATTTGGGAAAAGCTCTGCAGGATAAGTCGAATAAAATCAGAC
CTTGCAGAAACTCAATCTGGCCCCCTGGGAACTCTCCGGTGTGGAGCTGGAGGAAAAACCAGTACAGTACTCTCTC
AGGAAAACAAGCTCAGAGGCGGAATCAACAAGACAGCTGACGAACACATCCTCTTCAAGAGAGGCCAGGGTCTCA
AGCTCAAGTGGCCAAGGCAAGACGGGTCAAAGTCAGAGTGGTGGTCACAGTCCTGGAGGTGGCAAGAAGGATGAC
AAGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTGGAGTGGGAAAAAGAAGAAAACAAAAGGATCAGAT
GTTGCCAGCAAACTGCCACTGGAATCGGGAAACAAATGGAACCATTAGAAGAAAAGCAAGAGGAGGAAAGATCAAA
GGTGGACGATCTGAGGGGACCCCGATGTCAGTAGGAACCTTGAAGAGATCAATGACAGTCATGCCATCGTGTCT
ACATCTGTGGGCTCAGGACACTACGCCAACATTCTTTCATTTGTAGACAAGGATCTGCTGGCAACTGGCTGCTCA
GTCCTGCTCAATCACAAGGTGCATGCCATGAGAGGGGTGCTGATGGATGACGTGGATCCCCTGGTCACAGTGATG
AAGGTGGAAAAGGTCCCCCAGGAGACCTATGCCAATACTGGGAGGTTGGATAATCAAATTCAGGAAATTAAGGAA
TCTGTGGAGCTTCCTCTCACCCATGCTGAACATTATGAAGAGATGGGTATAAAGCCTCCTAAGGGGGTCAATTCTC
TATGGTCCACCTGGCATAAGTTAAACCTTGCTAGCCAAAGCGGTAGCAAACCAAACCTCAGCCACTTTCTTGAAA
GTGGTTGGCTCTGAACTTATTCAGAAGTACCTAGGTGATGGGCCCCAACTTGTACGGGAATTGTTTCAAGTTGCT
GGAGAACATGCACCATCCATCGTGTCTTACTGATGAACTGACGCCATTGGGACAAAAAGATATGACTCAAATTCT
GGTGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGCAACAAATGAAGACTTCAAAAAATCTAAAGAA
AATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTCTCTCTAG

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FIGURE 2048

MSVGTLEEINDSHAIVSTSVGSGHYANILSFVDKDLLATGCSVLLNHKVHAMRGVLMDDVDPLVTVMKVEKVPQE
TYANTGRLDNQIQEIKESVELPLTHAEHYEEMGIKPPKGVILYGPPGIVKTLLAKAVANQTSATFLKVVGSELIQ
KYLGDGPKLVRELFQVAGEHAPSIVFTDETD AIGTKRYDSNSGEAGLMALRERRMKATNEDFKKS KENVLYKKQE
GTPEGLSL

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FIGURE 2049

GGGGGGCTCGGGCTGGGGGCGCGGCCTGTGCCGGCCGCCCCACCCTCCTTGCATAAAAGCCGGAGCCCGCGGGGC
CGGCGCTCTCAGCCCCGTGCGTTCCCGAGCGCCTTCCCGGTGACCCCGCAGTGGGTGTGTGAGGGGAGGACGGACA
GACCCAGACGCCGCCGGACCAGGAGGACGCTGACGAGGCACCATGCGTGAGATCGTGACATCCAGGCGGGCCAG
TGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGTGATGAGCATGGGATTGACCCCACTGGCAGTTAC
CATGGAGACAGTGATTTGCAGCTGGAGAGAATCAATGTTTACTACAATGAAGCCACTGGTAACAAATATGTTTCCT
CGGGCCATCCTCGTGATCTGGAGCCAGGCACGATGGATTGCGTTAGGTCTGGACCATTCGGCCAGATCTTCAGA
CCAGACAATTTCTGTGTTTGGCCAGAGTGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAG
CTGGTCGACTCGGTCCTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGTCTCCAGGGCTTCCAGCTGACC
CACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAGATCCGGGAAGAGTACCCAGAC
CGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTGGTGGAGCCCTACAACGCCACC
CTCTCGGTCCACCAGCTGGTGAAAACACAGATGAAACCTACTGCATTGACAACGAGGCCCTGTATGACATCTGC
TTCCGCACCCTGAAGCTGACCACCCCCACCTACGGGGACCTCAACCACCTGGTGTGCGGCCACCATGAGCGGGGTC
ACCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACATGGTGCCCTTCCCT
CGCCTGCACTTCTTCATGCCCCGGCTTCGCGCCCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCGCTCACGGTG
CCCAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCGACCCGCGCCACGGCCGCTACCTG
ACGGTGGCTGCCATCTTCCGGGGCCGCGATGTCCATGAAGGAGGTGGACGAGCAGATGCTCAACGTGCAGAACAAG
AACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGCCGTGTGCGACATCCCGCCCCGCGGCCTG
AAGATGTGCGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACG
GCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCC
GAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGAGTTC
GAGGAGGAGGAGGGCGAGGACGAGGCGTAGATGCCCCCGCGAGACGGGTTAGGGAAAGCGGAGGAGGAAAGCGAG
GGGGTGGGGGGCTTCCCGGGACGATAACCTGGCAGTGGAAGGAAAGAAGCATGGTCTACTTTAGGTGTGCGCTGG
GTCTCTGGTGCTCTTCACTGTTGCCTGTCACTTTTTTTTTTCCTTTTTTTGTAAATATTGATGACATCAATGTAACAT
TTGAGATATTTCTGAATTACTGTTGTAATGGCTAAAATCACATAAACGTTTGTGTCGG

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FIGURE 2050

GCCCGCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACCATGCGCGAGATC
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG
ATCGACCCACAGGCAGTTACCATGGAGACAGTGAAGTTCAGCTGGAGAGAATCAACGTGTACTACATGAGGCT
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCAGGTCTGGA
CCCTTCGGCCAGATCTTCAGACCAGACAACCTTCGTGTTTCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC
CACTACACAGAGGGAGCCGAGCTGGTCGACTCGGTCTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGT
CTCCAGGGCTTCAGCTGACCCACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTG
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAACACAGATGAAACCTACTCCATTGATAAC
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTG
TCGGCCACCATGAGCGGGGTACCCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG
GTGAACATGGTGCCCTTCCCTCGCTGCACCTTTCATGCCC GGCTTCGCGCCCCTGACCAGCCGGGGCAGCCAG
CAGTACCGGGCGCTCACGGTGCCGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCGAC
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAG
ATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACAACGTGAAGACGGCCGTGTGC
GACATCCCGCCCCGCGGCCTGAAGATGTGCGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCTTTAAAAACTTCTCAGATCAATCGTGCAT
CCTTAGTGAACCTTCTGTTGTCCTCAAGCATGGTCTTTCTACTTGTAACCTATGGTGCTCAGTTTTGCCTCTGTTA
GAAATTCACACTGTTGATGTAATGATGTGGAACCTCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT
AATAAAAAAGCATGTGTAG

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FIGURE 2051

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGSDSLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYSIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM
AACDPRHGRYLTVAAlFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEEGEDEA

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FIGURE 2052

CCGCGTTCCTGCCGGCACCGCGCCTGCCCTCTGCCGCGCTCCGCCCTGCCGCCGACCGCACGCCCGCCGCGGGAC
ATGGCACACGCACCGGCACGCTGCCCCAGCGCCCGGGGCTCCGGGGACGGCGAGATGGGCAAGCCCAGGAACGTG
GCGCTCATCACCGGTATCACAGGCCAGGATGGTTCCCTACCTGGCTGAGTTCCTGCTGGAGAAAGGCTATGAGGTC
CATGGAATTGTACGGCGGTCCAGTTCATTTAATACGGGTCTGAATTGAGCATCTGTATAAGAATCCCCAGGCTCAC
ATTGAAGGAAACATGAAGTTGCACTATGGCGATCTCACTGACAGTACCTGCCTTGTGAAGATCATTAATGAAGTA
AAGCCACAGAGATCTACAACCTTGGAGCCCAGAGCCACGTCAAAATTTCCCTTTGACCTCGCTGAGTACACTGCG
GACGTTGACGGAGTTGGCACTCTACGACTTCTAGATGCAGTTAAGACTTGTGGCCTTATCAACTCTGTGAAGTTC
TACCAAGCCTCAACAAGTGAACCTTTATGGGAAAGTGCAGGAAATACCCAGAAGGAGACCACCCCTTTCTATCCC
CGGTCACCCCTATGGGGCAGCAAACTCTATGCCTATTGGATTGTGGTGAACCTCCGTGAGGCGTATAATCTCTTT
GCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAAGAGGAGCTAATTTTCGTTACTCGAAAAATTAGCCGG
TCAGTAGCTAAGATTTACCTTGGACAACCTGGAATGTTTCAGTTTGGGAAATCTGGATGCCAAACGAGATTGGGGC
CATGCCAAGGACTATGTGGAGGCTATGTGGTTGATGTTGCAGAATGATGAGCCGGAGGACTTCGTTATAGCTACT
GGGGAGGTCCATAGTGTCCGGGAATTTGTGAGAAATCATTCTTGCACATTGGAAAAACCATTGTGTGGGAAGGA
AAGAATGAAATGAAGTGGGCAGATGTAAAGAGACCGGCAAAGTTCACGTGACTGTGGATCTCAAGTACTACCGG
CCAAGTGAAGTGGACTTTCTGCAGGGCGACTGCACCAAAGCGAAACAGAAGCTGAACTGGAAGCCCCGGGTCGCT
TTCGATGAGCTGGTGAGGGAGATGGTGCACGCCGACGTGGAGCTCATGAGGACAAACCCCAATGCCTGAGCAGCG
CCTCGGAGCCCCGGCCCGCCCTCCGGCTACAATCCCCGCAGAGTCTCCGGTGCAGACGCGCTGCGGGGATGGGGAG
CGGCGTGCCAATCTGCGGGTCCCCTGCGGCCCTGCTGCCGCTGCGCTGTCCGGCCGCAAGAGCGGGGCCGCC
CGCCGAGGTTTGTAGCAGCCGGGATGTGACCCTCCAGGGTTTGGGTCGCTTTGCGTTTGTGGAAGCCTCCTCTGA
ATGGCTTTGTGAAATCAAGATGTTTTAATCACATTCACCTTTACTTGAAATTATGTTGTTACACAACAAATTGTGG
GGCCTTCAAATTGTTTTTC

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FIGURE 2053

MAHAPARCP SARGSGD GEMGKPRN VALITGITGQDGSYLA EFLL EKGYEVHGIVRRSSSFNTGRIEHLYKNPQAH
IEGNMKLHYGDLTDSTCLVKI INEVKPTEIYNLGAQSHVKISFDLAEYTADV DGVGTLRLLD AVKTCGLINSVKF
YQASTSELYGKVQEIPQKETTPFYPRSPYGA AKLYAYWIVVNFREAYNLFAVNGILFNHESPRRGANFVTRKISR
SVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWLMLQND EPEDFVIATGEVHSVREFVEKSFLHIGKTIVWEG
KNENEVGRCKETGKVHVTVDLKY YRPTEVD FLQGDCTKAKQKLNWKPRVAFDELVREMVHADVELMRTNPNA

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FIGURE 2054A

CGCCGCGGCCCCGGTACCAACGGGTGGTCTCGCCGAGGGAGCTGTCTGCTCGCTCGTGGTCCCGGGACTGCAGTGGTG
TGCGCTCTCGGCGCGTGGCGCTAGGCATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGG
TGACGGTCATGATGGACCCCACTCCACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAG
AAAAGTGTCTATCTGTGTCCCTGTGGCTTGAGGTTGGCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTG
GCCTTCAGATCCTGGAACACGTTGTCAAGTTTCGGTGGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGA
ACAGTGTCTATGGAGCTGATTGCAAAATGGAACATTGAACATTTTGGGAAGAGGAGAACCATAATTAAAGATGCTCTGT
CTCGAATTGTAGTGGAAATGATCAAGCGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTC
TTTCCAAACAAGGGGAAACACAGACAGAATTGGTGATGTTTATCCTTTTTCGACTGGCAGAGGATGTAGTGACTT
TTCAGACACTTCCCCCTCAAAGAAGAAGGGACATCCAGCAAACATTAACCCAGAACATGGAAGGATCTTCAGTT
TTCTGCTTAACACACTTCAAGAAAATGTAAACAAGTATCAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGG
CGAAGCAAACCTGTGAGTAGGAGTTGCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTC
ACATCACTGCTGAAAACCTGTAAACTCCTGGAGATACTGTGTTTGTCTGTTGAATGAACAGGAACCTTCAGTTGGGAG
CCGCTGAGTGTCTTCTCATTGCAGTCAGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTG
GAGATGTTGCCATGCATTATATACTCTCCGCCGACAGACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACG
TCTTTCTGAAGAGGCTCTGTGAGGTGTTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTG
ATGTAGAAACACCATCAAACCTTTGGAATACTTGGAAATCTTTTCTTGCTTTTACAACCCATCCAAGTCAGTTTC
TACGCTCTTCAACTCAGATGACTTGGGGAGCCCTCTTCAGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAG
CAATAATACCAAATATCTTCGTGCTTCCATGACTAACTTGGTCAAGATGGGCTTTTCTTCAACTCCTCCCGAGCAC
CTAGCTGTGAATATTCTCGGTTTGATTTTGATAGCGATGAGGACTTCAATGCTTTCTTCAACTCCTCCCGAGCAC
AACAAGGAGAGGTGATGAGGTTGGCATGTGCTTTGGATCCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAA
AGTATCAACTATCAACTTTTCTTGATGCTGGTTCTGTGAATTCTTGTTCTGCAGTTGGAACCTGGAGAAGGAAGCC
TCTGTTCCGTCTTCTCACCTTCATTCTGTCAGTGGGAAGCCATGACTCTTTTTTTGGAAAGTGTTATCACCCAGA
TGTTTCGAACACTAAATAGAGAAGAAATTCCTGTAAATGATGGAATAGAGCTATTGCAGATGGTTCTGAACTTTG
ATACCAAGGATCCCTCATCTGTCTGCGTCTTACTAATGTCTCTGCACTCTTTCCATTGTGCACCTACAGAC
CAGAGTTCTGCCCCAGGTCTTCTCTAAGCTATTTTCATCTGTCACTTTTGAACTGTTGAAGAAAGTAAGGCCC
CCAGAACC CGGCGAGTGAGGAATGTGAGGAGGCATGCTTGTTCTCCATCATCAAGATGTGTCGTGACTACCCCC
AGCTTGCTGCTGCCAATTTTGACATGCTTTATAACCATGTGAAGCAACTCCTCTCCAATGAGCTACTCCTGACAC
AAATGGAGAAGTGTCCTCATGGAAGCCCTGGTTCTCATTAGCAACCAATTTAAGAACTACGAGCGTCAGAAGG
TGTTCTAGAGGAGCTGATGGCACCAGTGGCCAGCATCTGGCTTTCTCAAGACATGCACAGAGTGTCTGTCAGATG
TTGATGCTTTTATTGCGTATGTGGGTACAGATCAGAAGAGCTGTGACCCAGGCCTGGAGGATCCGTGTGGCTTAA
ACCGTGACGAATGAGCTTTTGTGTATACAGCATTCTGGGTGTGGTGAAACGAACTTGCTGGCCCACTGACCTAG
AAGAGGCCAAAGCTGGGGGATTTGTGGTGGGTTATACATCCAGTGGAAATCCAATCTTCCGTAACCCCTGCACAG
AGCAGATTCTGAACTTCTTGACAATTTGCTTGGCCTTATAAGAACCACAATACATTATATGCACCAGAAATGC
TAGCCAAAATGGCAGAGCCTTTCACCAAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTAC
CTCAACCTCTCTTGGAACTCAATGACTCTCCTGTCTTCAAAACCGTCTTGGAAAGATGCAGCGTTTCTTCTCTA
CCCTCTATGAAAACCTGTTTTCATATCCTAGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGG
ACCTTGCTACCCAGCTTCTCAGCTCAGCCTTTGTCAACTTGAACAATATTCTTGACTACCGACTCAGACCCATGC
TTCGGGTCTTTGTAAAGCCTCTGGTGCTCTTCTGTCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCG
GACCTCTTTTACCTACCTCCATATGAGGCTTTCTCAGAAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTG
GAGAAGATGAGGCTGCAGATGAAAACCCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACC
GAGAAGTCATGGACCTAATCACGGTTTGTGTGTTTCAAAGAAGGGTGCTGACCACAGTAGTGCTCCCCCAGCAG
ATGGAGACGATGAAGAAATGATGGCCACAGAGGTCACCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAAT
GTCTGATGAAGCATGAGGATGTTTGTACAGCGCTATTAATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTC
TGTCCTGCCAGAGGACAACCTCACAGCTCTGCTGGCCTCTCCTCAAACAAGTGTCTGTGAGGGACACTGCTCGCAG
ATGCAGTTACGTGGCTTTTACCAGTGTGCTGAAAGGCTTACAGATGCACGGGCAGCAGCAGGGTGCATGGCTT
CCCTGGTCCATCTGGCCTTCCAGATATACGAGGCCTGCGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGC
AAATCCCTGAAATACAGAAGGACTCACTGGACCAGTTTACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGG
CTGACAAGCGCCGAAAGGACCAATTCAAACGCTCATTGCTGGTTGCATTGGGAAACCCCTGGGAGAGCAGTTCC

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FIGURE 2054B

GAAAAGAAGTTCACATTAAGAATCTTCCCTCACTTTTCAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGG
ACAATGATGGGGGTGGCCTGGCCACCATCTTTGAACCCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCT
TGTCATCTCTTCTTTCCCTTTGTAGCCGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCCTGTCA
GCCTGGAAAGAGATCCAGGTCTGGAGCTGGAGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTA
TCAAGAAAGGGAGTTAGGGCTTAAACTATTCTGTCTAGATGTCCCAGATAGTTCCCATTCTACTTGGAGATTG
CTTTTCCAAGAAAAGCTAGAGCAGAGCAGCCCTTCTCCCACAAGCCCTCCCACCCCGTGCAGCCACATACCTGT
ACAGAATGGTAACTAAGGGTGCTGTGCCCAACCCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCACT
ACTTGTGCCAGAGTTTCTCTTGGACCACTCCAACCTCCCCTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTT
CCCCACTCCCTAAGGGGCATGTCTGGGTAGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGC
TTTGGGCAAGAATCTGGTCACCTGATGGGATCCATGGTACAGGCTACTGCTAACTTGGCACAGTATCAAGTATA
GTACCTCCAAGGACCAGGGCTGGGCAGTCTTTAGTGCTAACATCCCCTTTAGAGTTCACACATCTTGCCCTTCCA
TGAATGACCCCTCAGTCTGGCCTCCCCAGCCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCTTAGATAGTG
TCACATGACACCGTTGTCTATCCAAGGATAATACAGACCAACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCC
GCTGGTCTTCTCCTAGGACTAAGTCCAGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCT
CAAAGGCCATTTCCAAAAGAATACATGCCTTCACATCACAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAA
AGGCCCTGTAAAGAGAGGACATGGATACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCC
ATACAGAAACCAAGTGTGTCCATGTGCTCTGCACAAAAACAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGT
TTCCCCGAGAGCCGAAGTGGACTGAAGCTACAGTTTTTAGCTGGTGCAGGGCCACAGGCAGGGTCAGATTGAGAAG
AAGCAAAGCTGGGGAAGCAGAAGTTGGGAGTCTTGTGTTGCTCCCTCTTCCTGTGTGGTGCTCTGGGTTTCTGTG
GATCGTGAAGGCGATCTCAAGAGTGTTCCTCCAAACCTGATAGCTGCCTATTCCTGTCTGGTTGGGGCTGTGG
AGGATGTAGTTGTATTTATTGCATTGTAATATTTTAAACATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTT
ATAGAACTTTTGTAGAAACATTAACCTCTAAAGCACATCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 2055

MAMDQVNALCEQLVKAVTVMMDPNSTQRYRLEALKFCEEKCEKCPICVPCGLRLAEKTQVAIVRHFGLQILEHV
KFRWNGMSRLEKVYLKNSVMELIANGTLNILEEENHIKDALSRIVVEMIKREWPOHWPDMLELDTLSKQGETQT
ELVMFILLRLAEDVVTFTQTLPPQRRRDIQQTLTQNMERIFSFLNLTQENVNKYQQVKTDTSQESKAQANCRVGV
AALNTLAGYIDWVSMSHITAENCKLLEILCLLLNEQELQLGAAECLLIASVRKGKLEDKPLMVLFGLVAMHYIL
SAAQTADGGGLVEKHYVFLKRLCQVLCALGNQLCALLGADSDVETPSNFGKYLESFLAFTTHPSQFLRSSTQMTW
GALFRHEILSRDPLLLAIIPKYLRASMTNLVKMGFPSKTDSPSCEYSRFDSDSDFNFAFFNSSRAQQGEVMRLA
CRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCSAVGTGEGSLCSVFSFVQWEAMTLFLESVITQMFRTLNREE
IPVNDGIELLQMVLFNFDTKDPLILSCVLTNVSALFPFVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNV
RRHACSSIIKMRDYPQLVLPNFDMLYNHVKQLLSNELLLTQMEKCALMEALVLI SNQFKNYERQKVFLLEELMAP
VASIWLSQDMHRVLSVDVAFIAYVGTQKSCDPEGLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFV
VGYTSSGNPIFRNPCTEQILKLLDNLLALIRTHNTLYAPEMLAKMAEPFTKALDMLDAEKSAIIGLPQPLLELND
SPVFKTVLERMQRFFSTLYENCFHILGKAGPSMQQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMLHVFVKPLV
LFCPPEHYEALVSPILGPLFTYLHMRLSQKWQVINQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITV
CCVSKKGADHSSAPPADGDDEEMMATEVTPSAMAELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQ
LCWPLLKQVLSGTLTLLADAVTWLFTSVLKGLQMHGQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDS
LDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCIGKPLGEQFRKEVHIKNLPSLFKKTCPMLETEVLNDGGGLAT
IFEP

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FIGURE 2056

AAAACACCAAATGGCGGATGACGCCGGTGCAGTGGGGGGGCCTGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCAGAGGTTTCGCCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTGGACCGGGCCGGGGCTGAGG
CCGCGGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCCGTACCAAGCTGGGCCGCTTGGTCAAGGA
CATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTT
CCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCAC
CAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAGTGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGT
GGCCACCGCCACCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCACAGAGGCTACTAGGGGAA
CAAGATCGGCAAGCCCCACACCGTCCCCTGCAAGGTGACAGGCCGCCGTGGCTCTGTGCTGGTGCGCCTCATCCC
TGCACCCAGGGGCACTGGCATTGTCTCCGCACCTGTGCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTG
CTACACCTCAGCCCAGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGAC
CTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCA
CCTCGTCAAGACCCACACCAGAGTCTCTGTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTA
TACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 2057

GGGCTGCGCTCTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGGCCCGCAGGCCT
GGGAATTTCCGTCCCCACCAAGTCCGGATGCTCACTCCAAAGTCTCAGCAGGCCCTGAGGGAGGGAGCTGTCA
GCCAGGGAACCCAGAAACACCATCACCATGACAACCAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCT
TATCTTCTTCATGCTGGGTCTGGGAACGCTGCTCCCGTGGAATTTTTTTCATGACGGCCACTCAGTATTTACAAA
CCGCCTGGACATGTCCAGAAATGTGTCCTTGGTCACTGCTGAAGTGAAGGACGCCCAGGCGTCAGCCGCCCC
TGCAGCACCTTGCTGAGCGGAACCTCTCTCAGTGCCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCC
CCTGCTGTTATTACCTACCTCAACTCCTTCTGTCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCT
GGTGGCCATCCTGCTGGTGTCTTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGT
CATCACCATGATCAAGATCGTGCTCATTAATTCATTTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTCTGGCTGG
CCTTCTGCTGCCAGCTACACGGCCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGCCCTCCGTGGCCAT
GATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCTTCGGCTACTTTATCACAGCCTGTGCTGTTAT
CATTTTGACCATCATCTGTTACCTGGGCCTGCCCCGCTGGAATTCTACCGCTACTACCAGCAGCTCAAGCTTGA
AGGACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGGCAAAGAGGAATC
TGGAGTTTTCAGTCTCCAACCTCTCAGCCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAATATCTCAGT
CCTGGCTTTTCTCTGTCTGCTTTCATCTTCACTATCACCATTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTC
CAGCATCGCAGGCAGCAGCACCTGGGAACGTTACTTCATTCTGTGTCCTGTTTCTTGACTTTCAATATCTTTGA
CTGGTTGGGCCGGAGCCTCACAGCTGTATTTCATGTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGCT
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGCTGTGCAACATTAAGCCCCGCCGCTACCTGACTGTGGTCTTCGA
GCACGATGCCTGGTTTCATCTTCTTCATGGCTGCCTTTGCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTG
CTTCGGGCCCCAAGAAAGTGAACCCAGCTGAAGCAAAAACCGCAGGAGCCATCATGGCCTCCTTCTGTGCTGGG
TCTGGCACTGGGGGCTGTTTTCTCCTTCTGTTCCGGGCAATTGTGTGACAAAGGATGGACAGAAGGACTGCCTG
CCTCCCTCCCTGTCTGCCTCCTGCCCCCTCCTTCTGCCAGGGGTGATCTTGAGTGGTCTGGCGGTTTTTTCTTCT
AACTGACTTCTGCTTTCCACGGCGTGTGCTGGGCCCCGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACA
GTGGGGACATTGTGGGTTTGGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTCGGCATTTGCTTGAGTTTCTCCAC
TCTTGGCTCTGACTGATCCCTGCTTGTGTCAGGCCAGTGGAGGCTCTTGGGCTTGGAGAACACGTGTGTCTCTGTG
TATGTGTCTGTGTGTCTGCGTCCGTGTCTGTGTCAGACTGTCTGCCTGTCTGCTGGGGTGGCTAGGAGCTGGGTCTGAC
CGTTGTATGTTTGGACCTGATATACTCCATTCTCCCCCTGCGCCTCCTCCTCTGTGTTCTCTCCATGTCCCCCTCC
CAACTCCCCATGCCAGTTCTTACCCATCATGCACCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATA
TTTGACAGAAACCAGGTGCCTTTCAGAGGCTCTCTGATTTAAATAAACCTTTCTTGTTTTTTT

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FIGURE 2058

GCGCGGCACTTCCGCTGGCCGCTGGCTCGCTGGCCGCTCCTGGAGGCGGCGGGAGCGCAGGGGGCGCGCGGC
CCGGGGACTCGCATTTCCCGGTTCCCCCTCCACCCACGCGGCCTGGACCATGGACGCCAGATGGTGGGCAGTGG
TGGTGCTGGCTGCGTTCCCTCCCTAGGGGCAGGTGGGGAGACTCCCGAAGCCCCCTCCGGAGTCATGGACCCAGC
TATGGTTCTTCCGATTTGTGGTGAATGCTGCTGGCTATGCCAGCTTTATGGTACCTGGCTACCTCATGGTGCAGT
ACTTCAGGCGGAAGAACTACCTGGAGACCGGTAGGGGCCTCTGCTTTCCCTGGTGAAAGCTTGTGTGTTTGGCA
ATGAGCCCAAGGCCTCTGATGAGGTTCCCTGGCGCCCCGAACAGAGGCGGCAGAGACCACCCCGATGTGGCAGG
CCCTGAAGCTGCTCTTCTGTGCCACAGGGCTCCAGGTGTCTTATCTGACTTGGGGTGTGCTGCAGGAAAGAGTGA
TGACCCGCAGCTATGGGGCCACAGCCACATCACCGGGTGAGCGCTTTACGGACTCGCAGTTCTTGGTGCTAATGA
ACCGAGTGCTGGCACTGATTGTGGCTGGCCTCTCCTGTGTTCTCTGCAAGCAGCCCCGGCATGGGGCACCCATGT
ACCGGTACTCCTTTGCCAGCCTGTCCAATGTGCTTAGCAGCTGGTGCCAATACGAAGCTCTTAAGTTCGTCAGCT
TCCCCACCCAGGTGCTGGCCAAGGCCTCTAAGGTGATCCCTGTTCATGCTGATGGGAAAGCTTGTGTCTCGGCGCA
GCTACGAACACTGGGAGTACCTGACAGCCACCCTCATCTCCATTGGGGTCAGCATGTTTCTGCTATCCAGCGGAC
CAGAGCCCCGCAGCTCCCCAGCCACCACACTCTCAGGCCTCATCTTACTGGCAGGTTATATTGCTTTTGACAGCT
TCACCTCAAACCTGGCAGGATGCCCTGTTTGCCCTATAAGATGTTCATCGGTGCAGATGATGTTTGGGGTCAATTTCT
TCTCCTGCCTCTTACAGTGGGCTCACTGCTAGAACAGGGGGCCCTACTGGAGGGAACCCGCTTCATGGGGCGAC
ACAGTGAGTTTGTGCCCCATGCCCTGCTACTCTCCATCTGCTCCGCATGTGGCCAGCTCTTCATCTTTTACACCA
TTGGGCAGTTTGGGGCTGCCGTCTTACCATCATCATGACCCTCCGCCAGGCCTTTGCCATCCTTCTTTCTGCC
TTCTCTATGGCCACACTGTCACTGTGGTGGGAGGGCTGGGGGTGGCTGTGGTCTTTGCTGCCCTCCTGCTCAGAG
TCTACGCGCGGGGCCGTCTAAAGCAACGGGGAAAGAAGGCTGTGCCTGTTGAGTCTCCTGTGCAGAAGGTTTGAG
GGTGGAAGGGCCTGAGGGGTGAAGTGAAATAGGACCCTCCCACCATCCCCTTCTGCTGTAACCTCTGAGGGAGC
TGGCTGAAAGGGCAAAATGCAGGTGTTTTCTCAGTATCACAGACCAGCTCTGCAGCAGGGGATTGGGGAGCCCAG
GAGGCAGCCTTCCCTTTTGCCCTTAAGTCACCCATCTTCCAGTAAGCAGTTTATTCTGAGCCCCGGGGGTAGACAG
TCCTCAGTGAGGGGTTTTGGGGAGTTTGGGGTCAAGAGAGCATAGGTAGGTTCCACAGTTACTCTTCCCACAAGT
TCCCTTAAGTCTTGCCCTAGCTGTGCTCTGCCACCTTCCAGACTCACTCCCCTCTGCAAATACCTGCATTTCTTA
CCCTGGTGAGAAAAGCACAAAGCGGTGTAGGCTCCAATGCTGCTTTCCAGGAGGGTGAAGATGGTGCTGTGCTGA
GGAAAGGGGATGCAGAGCCCTGCCCAGCACCACCCTCCTATGCTCCTGGATCCCTAGGCTCTGTTCCATGAGC
CTGTTGCAGGTTTTGGTACTTTAGAAATGTAACTTTTTGCTCTTATAATTTTATTTTATTAAATTAAATTACTGC

A

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FIGURE 2059

CAGAATCGGTAGACATTGCGAACCAGGTTATGAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCT
CCATAGAGGAGATAGAGGTGGCACCCTCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTGCGGTTTGCC
ACACCGACGCCTATACCCTGAGGGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCCG
GAATTGAGGAAAGTGTGGCGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACCTTTACATCCCAC
AGTGTGGAGAATGCAAATTTTGTCTATATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAG
GATTAATGCCAGATGGTACCAGCAGATTTACTTGCAAAGGAAAGACAATTTTGCCTTACATGGGAACCAGCACAT
TTTCTGAATACACAGTTGTAGCTGATATCTCTGTTGCTAAATAGATCCTTTAGCACCTTTGGATAAACTCTGCC
TTCTAGGTTGTGGCATTTCAGCTGGTGATGGTGCTGCTGTGAACACTGCCAAGGTGGAACCTGGCTCTGTTTGTG
CCGTCTTTGGTCTGGGAGGAGTTGGATTGGCAGTTATCAAGGGCTGTAAAGTGGCTGGTGCATCCCGGATCATTG
GTGTGGACATCAATAAAGATAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAACCCTCAGGGTT
TTAGTAAACCCATCCAGGAAGGGCTCATTGAGACGACTGATGGAGGAGTGGACTATTCCTTTGAATGTATTGGTA
ATGTGAAGGTCATGAGAGCAGCACTTGAGGCTTATCACAAGGGCTGGGGAGTCAGCGTGGTGGTGGAGTAGCTG
CTTCAGGTGAAGAAATTGCCACTCGTCCATTCCAGCTGGTAACAGGTGCGACATGGAAAGGAACCTGCCTTTGGAG
GATGGAAGAGTGTAGAAAGTGTCCCAAAGTTGGTGTCTGAATATATGTCCAAAAAATAAAAGTTGATGAATTTG
TGACTCACAATCTGTCTTTTGGTGAATTAACAAAGCCTTTCAACTGATGCATTCTGGAAAGAGCATTGCAACTG
TTGTAAAGATTTAATTCAAAGAGAAAAATAATGTCCAACCTGTCGTGATGTGATGGGAGCAGCTTAACAGGCAG
GGAGAAGCGCTCCAAACTCACAGCCTCGTAGAGCTTCGCAGCTACCCAGAGAATAGTGTTATGAGTGTAAATTC
ATGAATCTCTATAATCAACGACAAGGATAATTCAGTCATGGACCTGTTTTCTGGACGCTCCTCCACATAAATAAT
TGCTAGCTTATTAAGGAATATTTTAACATAATAAAAGTAATTTCTACATTTGTGTAGAAAATTGCTTTGTTTTAT
GCTGTAATCATTGTGATGGTTTGTCTGCCATTATCTTCATTCTGTAAGGGAAATGTAAAGGAAGCAGGGCAGTG
GTGGGTGCTGAAACCTCAGAAACATTCGTTGAAGTTTTAAGGGTCTCAGTCCCGTTGATTGAAGAACAGATCCT
AGCCATCAGTGACAAAGTTAATCAGGAGCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTT
GTTCTGTCCTGTACCCCAAATTCCTAGTATGGCATCTGCCCTCAGGGGACACTAAAATGTATTATTGAAACAGC
ATTCTGGACTTAAATAGGTGTATGTGTGTGTTGGTTGTGGCTGTACTATTTCTAGTATAGTGAATTACATACTGA
ATATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCCACATCACATTGCCATTCCTCC
CCTCCAGAGGTAACAATTATCCAAAATTTGATGTTTGTCTTCTGTTGTTGTACTTTCACTGTGTATAACCT
AAACCATCTACTCTTTAGTACTGTTTTATATATTTTTAAGCCTTATACTTGCTCATTCTACAGCTTTTCTTTTTT
TCACTCATTATTGTATAATTATATGTGAAGCTTTCATTCAATTAATTTTAGTACTGTGTAGCAGTATTCAATTACG
CGAACTAICTTAATTCATCTGTTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTACAACACTGTAG
TGGAACATTCTTCTGCATTGGGCTCACTACATTAGTTACTTAAGATGTGTATCACAGAATAAACACATTTAGCCT
TATAGACATTGCCAAATTTATCTTCAAAGTAAATGTGAGTTTTTGTGAATTACGTGAGTGTAGAATGGTGTTTTA
TTATGAGTTTAGTTTGCATTTTCCACAA

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FIGURE 2060

ATGATCAAGGGTGTTACACTAGGCTTCCATTACAAGATGAGATCTGTGTATGCTCACTTCCCCATCAACGTCGTT
ATCCAGGAGAATGGGTCCTTGTTGAAATCCGAAATTTCTTGGGTAAAAAATACATCCGCAGGGTTTGGATGAGA
GCAGGTGTTGTTTGTTCAGTATCTCAAGCCCAGAAAGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTT
TCAAATTCAGCGGCTTTGATTCAACAAGCCACAACAGTTAAAAAGAAGGATATCAGGGAATTTTGGATGGTATC
TATGTCTCTGAAAAAGGAACTGGTCAGCAGGCTGATGAATTAA

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FIGURE 2061

MIKGVTLGFHYKMRSVYAHFPINVVIQENGLVEIRNFLGKKYIRRVWMRAGVVCSSQAQKDELILEGNDIELV
SNSAALIQQATTVKKKDIREFLDGIYVSEKGTGQQADE

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FIGURE 2062

GCTGTCGGTCCACGCCGCCGTCGCGCTGCCCCGCCGCTCGGCGTCGGCCGCCGCC**ATGGG**AGTGCACGTGGAAA
CCATCTCCCCAGGAGACTGGCGCACCTTCCCGAAGCGCAGCCAGACCTGCGTGATGCACTACACCGGGATGCTTG
AAGATGGAAAGAAATTTGATTCTCCCGGGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGA
TCCGAGGCTGGGAAGAAGGGGTGTCCAGATGAGTGTGGGTCAGAGAGCCAAACTGACTATATCTCCAGATTATG
CCTATGGTGCCACTGGGCACCCAGGCATCATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAAC
TGGAAT**TGA**CAGGAATGGCCTCCTCCCTTAGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGA
CGTGTGCACATAAATCCATATGGAGCTTTTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCCAACTGAA
TTATTCTCCAAGTTGAGAGATGTCCTTGGGTAAATTAAAAGCCCTACCTAAAACTGAGGTGGGGATGGGGAGAG
GCTTTGCC

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FIGURE 2063

MGVHVETISPGDWRTFPKRSQTCVMHYTGMLEDGKKFDSSDRNKPFFMLGKQEVIRGWEEGVVQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

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FIGURE 2064

CGCCTTGGCCATTTGCCAGCCACACAACCCAGGACCTCCAATGGGGACGCCCACTGAGGATCCTAGTGGTTGCTC
TTTTCTTGTCTCTTTCTTTCCCCCAGTCTTTCTTGTCTATCATGGGCAATTTCCCGCCTTCCATCCCTCTT
TCTTCTGTCTGGCTTGTGTCTCAGAAACCTCAAACCTCTTACCTTGCACCCAATCTAAAGGCTAAACGTCTAA
TTTTTTTCTGTAACACGTCTTGGCCCCAGTATAAATTAGAAAATGGCGCTCAGTGGCCAGAAAACAGCACTTCCA
ATTTCTCTATTTTGTGGGACTTAGACAACCTTCTATGGAAAAATGGGCAATGGGTCTGAGGTACCCTACTTCCAG
GCATTTTTTACATACGATCTCTCCCTAGCCTATGCTTCCAATGTAATCCATCCCCAATTTCTCTTATTTCCCTTC
TGTCTACCCCTCCTTCTTCCACTGGCGATGCTGACTCCTCTTTGTCTGTTGACCCCTCCGATCTTTCTCCCCAC
CACCTATCCGAACCTGCTTCTAATTCTCCCCCAGAACCTATTTCTACCCACAATCCACCCTCTTATGCCCCCTCCC
ATTACCACCCTTCCCTCACATCCTCTATGGCTTACAGTTTGGGCCTGCGACCAACCCCCAGGCCCTGCCTAGCAA
TTTCCCTCGGAGAGGTGGCAGGAACCAAAGGAATAGTTCGGGTTTCAAGTCCCTTTCTCCCTGTTTCGACCTTTCC
CAAATTAGTGAACATCTAGGCTCTTTCCCATCTGACCCACCAATATATACGAGAATTCCAATACTTAACCCAG
TCCTATAATCTTACTTGAATGACTTAAATGTCATCCTTACCTCTACCCTCGCTCCTGAGGAGTGAGAGTGGGT
TGGATCCTAGCTCAATCTTAGGCTGATAACCGCCGGTGGCGTAAGCCTGGCCTCCAGTAAGGTGCTAGGGCAGTA
CCCTGTGAAGACCCCGGATGGACTTACCAGGCCCTGGGACCCATGCATAGCCAGGCGGGACTACATGATCTCTTG
CCTAGTTAAAGGGCTTCAGAAGGCTGCATATAAAGCCGTCAATTATGACAACTAAAAACAAAAACAAAAACAA
AAAAAACCACTCAGAACAAAGATAAAAAATCCAGCTCAGTTTATGGCCTGTCTACCTGCCACCCTCAGGCGATATA
CAGCACTAGACCCTGAAGGGATAGAAGGCCGCTTATTCTTAACATGCATTTTATTACCCAGTCAGTTTCTGACA
GTAGAAAGAACTTCAAAAATTAGAGTCTGGCTCTCAGATCCCAACAGGAATTAATCAACCTCGCCTTCAAGG
TGTTCAATAATAGGGAAGAGACTGCCCCGGCGACAGCGCATTTCAAGACTACAGATGCTTGCCTCCGCCATAAGAC
AAACCCCACTGCACTGCCTACCTGCAAGAACTTCAAGGCATCTAAACGCAACATCCAACAGCCCCCTCTGGGACT
TTGCTTCAAGCGATGAAAACCTGGCCACTGGGCAAGGAATGCCTGCAGCCTGGGATTCTCTAAGCCATGCCCC
GCCTGTGCGTCCCTCACTGGAAGTCTGACTGCCCCGACTCTCATCGCCACTTCCGGAGCTCCTGGAGCTCAAACCC
AAAGCTCCCCACCGACTCCTTCCAGATCTCCTCGGCTTGGCGGCTGAAGACTGACGCTGCCCCGAACGTCTCGGA
GGCCCCCTTAGACAATCGCGGATGCCGAGCTTCGGGTAACTCTTAGGGTGGAGGCATAAAAAGACAGGAATGTAAG
GTCCTCTGAGCAGGCGGCGCCATGGTCAAGCCATCGTGACCCCTGTGACTCACACGTACACATCCAGAAGGTCTC
CTGGAGCCAGAAAGTCTGGGACGACAGGAAAACCACAAAAGAAGAAAAA

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FIGURE 2065

GGGCCTGGACGCTTTGGCAACCGCTACTCCCGGGGGTGCTTTTTCTGCAGGGACGAAGTGCCACCTATGCTAGTG
GCGGGTCTGGAAGCCTAGAGGGGAACCAGGCTGCAGAGCCGGGCCAAGGGATTAGCGGCGGGCGGGCGGGCATGGC
CTGGACTGCGCGGGACCGCGGGGCCCTGGGGCTGCTGCTGTTGGGGCTCTGCTTGTGCGCGGCTCAAAGAGGTCC
CCCGGGTGAGCAGGGTCCTCCCGGGCCTCCGGGCCCCCTGGAGTTCCAGGCATCGATGGCATCGACGGTGACCG
AGGTCTTAAGGGCCCCCGGGCCCCCGGGTCCTGCAGGTGAACCGGGAAAGCCAGGAGCTCCAGGCAAGCCTGG
CACACCTGGCGCTGATGGATTAACAGGACCTGATGGATCCCCTGGCTCCATTGGGTCAAAGGGACAAAAGGAGA
ACCTGGTGTGCCTGGATCGCGTGGATTTCAGGCCGTGGTATTCTGGACCCCTGGTCTCTCTGGGACAGCAGG
ACTCCCTGGAGAGCTTGGCCGTGTAGGACCTGTTGGTGACCCTGGGAGAAGAGGACCACCTGGCCCCCTGGCCC
CCCAGGACCCAGAGGAACAATTGGCTTTTCATGATGGAGATCCATTGTGTCCCAATGCCTGTCCACCAGGTGCTC
AGGATATCCAGGCCTACCAGGCATGAGGGGTCTATAAAGGGGCTAAAGGAGAAATTGGTGAACCAGGAAGACAAGG
ACACAAGGGTGAAGAAGGTGACCAGGGAGAACTCGGAGAAGTTGGAGCTCAAGGACCTCCAGGAGCCCAGGGTTT
GCGAGGCATCACCGGCATAGTTGGGGACAAAGGGGAAAAGGTGCTCGGGGCTTAGATGGTGAACCTGGGCCTCA
GGGTCTTCTGGTGCACCTGGTGATCAAGGACAGCGAGGACCTCCAGGAGAAGCAGGTCCCAAAGGAGATAGAGG
GGCTGAAGGTGCTAGAGGAATTCCTGGTCTCCCTGGGCCCAAAGGAGACACGGGTTTGCCAGGTGTGGATGGCCG
TGATGGGATCCCTGGAATGCCTGGAACAAAGGGTGAACCAGGAAAACCTGGGCCTCCTGGTGATGCAGGATTGCA
GGGGTTACCAGGTGTACCTGGAATTCCTGGTGC AAAGGGTGTGTGCTGGTGAAAAGGGTAGCACAGGTGCTCCAGG
GAAGCCTGGTCAGATGGGAAATTCAGGCAAACCGGGCCAACAGGGGCCTCCAGGAGAGGTGGGACCCCGAGGACC
CCAGGGGCTTCTGGCAGTAGAGGAGAATTAGGACCAGTGGGATCCCCAGGCCTACCAGGTAAACTGGGTCTCT
GGGTAGCCCTGGCCTCCCTGGCTTGCTGGGCCCCCTGGACTTCTTGAATGAAAGGTGACAGGGGTGTAGTCGG
TGAACCGGGTCCAAAGGGTGAACAGGGTGCCTCTGGTGAAGAAGGTGAAGCAGGAGAAAGGGGGGAACCTGGAGA
TATAGGATTACCTGGCCCCAAAGGGATCTGCAGGTAATCCTGGGGAACCTGGCTTGAGAGGGCCTGAGGGAAGTCG
GGGGCTTCTGGAGTGGAAGGACCAAGAGGACCACCTGGACCCCGGGGTGTGCAGGGAGAACAGGGTGCCACCGG
CCTGCCTGGTGTCCAGGGCCCTCCGGGTAGAGCACCGACAGATCAGCACATTAAGCAGGTTTGCATGAGAGTCAT
ACAAGAACATTTTGCTGAGATGGCTGCCAGTCTTAAGCGTCCAGACTCAGGTGCCACTGGGCTTCTTGAAGGCC
TGGCCCTCCTGGTCCCCCGGCCCTCCTGGAGAGAATGGTTTTCCAGGCCAGATGGGAATTCGTGGCCTTCCGGG
CATTAAAGGGGCCCCCTGGTGTCTTGGTTTGAGGGGACCTAAAGGTGACTTGGGAGAAAAGGGGGAGCGTGGCCC
TCCAGGAAGAGGTCCCAACGGTTTGCTGGAGCTATAGGTCTCCAGGTGACCCAGGCCCTGCCAGCTATGGCAG
AAATGGCCGAGACGGTGAGCGAGGCCCCCCAGGGTGGCAGGAATTCCTGGAGTGCCTGGACCCCGGGACCTCC
TGGGCTTCCCGTTTTCTGTGAGCCAGCCTCCTGCACCATGCAGGCTGGTCAGCGAGCATTTAACAAAGGGCCTGA
CCCTTGAAAGGCTTACTGCTGCATGGCTGTCTGCATGAACCACGCCTGGTGAAGGAGCCTGGGTGAGAAACACCA
TCCAAAGCTGGGGCAAAGATGATTACCTTCAGCATGATTACAATGTATTACCTTCAGTATGATTACAGAAGTCCT
ACTTGACAATCACATATAGAAGAACGGTGCTATTTCAGTAAGTTCTCTTTCCCTTTGGAGGGAAGACAGCAG
AGTCATCAGTTAAAAAAGAAAAAAGAAAAACAAACACCTCCCTTGAATAAATTTATACTCCTGTTCACAGGATCT
TGAGCTTTAGTGTGCTATACCTATGTGTCTTATCGTGGGCCACTGTGCCAATAAACAACAACTGTTTGGTTT
ACCTC

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FIGURE 2066

GGCCGCGCCCTGCAGATTGTCTCTTGTTCGTAAGTTTTTTTTGACCGTCACCTCGTGTCTCAGCTTCAAAGTCAGATA
GATTTTTCTCCCAGCATGTTCTACTTCCGAGGCTGTGGCCGTTGGGTTCGCGGTTTCCTTCACCAAGCAGCAATTT
CCGTTGGCACGGTTGAGCAGTGACAGCGCGGCCCGGACTCCGCACTTCGACGTGATAGTCATTGGTGGAGGA
CATGCCGGGACTGAGGCAGCCACCGCCGCGCTCGGTGCGGCTCTCGGACTCTGCTCCTCACTACCGCGTGGAC
ACGATCGGTCAGATGTCATGTAATCCTTCTTTGGTGGCATCGGAAAGGGACATTTAATGAGGGAAGTAGATGCC
TTGGATGGCCTGTGTTCTCGCATCTGTGACCAGTCTGGTGTACATTATAAAGTATTAAACCGGCGTAAGGGACCA
GCTGTGTGGGGTCTGAGAGCTCAGATTGATAGGAACTCTACAAACAGAACATGCAGAAAGAAATCTTGAATACA
CCACTGCTTACTGTTACAGAGGGAGCTGTAGAAGATCTTATTCTTACAGAACCAGAGCCTGAACACACTGGGAAA
TGCCGTGTCTCAGTGGGGTTGTTTTGGTGGATGGAAGCACAGTATATGCAGAGAGTGTGATTCTGACTACTGGGACA
TTTCTGAGAGGCATGATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGGATCAGCCTTCTATAGGA
TTGGCTCAGACACTGGAGAAGTTAGGGTTTTGTGGTGGGAAGGTTGAAGACTGGGACTCCACCCCGAATTGCCAAA
GAGTCCATTAAATTCAGTATTCTAAACAAGCATATACCGGACAATCCATCCATACCATTACAGCTTTACCAATGAG
ACAGTATGGATTAAGCCAGAAGATCAGCTGCCATGTTACTTGAAGTACACCAACCTAGAGTGGATGAGATTGTC
CTTAAGAACCTTACCTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTGAATCA
AAAGTTTTGCGTTTTTCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAATGGATTCTGACCTTATCTAC
CCACAGGGGTTATCTATGACGCTACCAGCTGAGTTACAAGAGAAAATGATCACATGCATCAGAGGCTTGGAGAAA
GCTAAAGTGATTACGCCAGACGGAGTTTTGCTCTTGTGCGCAGGATGGAGTGCAATGGTGGATCTCGGCTCAC
CACAACCTCCCCCTGCCAGGCTACGGTGTTCAGTATGATTACTTAGATCCCCGTCAGATCACCCCTTCTTGGAG
ACTCATTTGGTTCAACGACTCTTCTTTGCTGGACAGATCAATGGCACCCTGGTTATGAGGAAGCTGCAGCTCAA
GGTGTGATAGCCGAATCAACGCCAGTCTTCGGGTGAGTCGCAAGCCTCCCTTTGTGGTTAGCCGAACAGAAGGT
TACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGCACCAGTGAACCATAACCGCATGTTTACCAGCCGAGTA
GAGTTCCGTTTGTCACTGCGCCCTGATAATGCTGACAGCCGGCTCACACTGCGAGGGGTATAAAGACGCTGGCTGT
GTGTCCCAACAACGATATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTTGAAATCT
ATTGAGTTTTTTGAGCTCTAAATGGAAAAAATTAATCCCAGAGGCTTCTATAAGTACTAGTAGAAGTCTGCCTGTC
AGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGGATTTCATTAGCCAAGGCTGTTCCAGAGCCCTTGAAG
AAGTATACTAAATGTAGAGAGCTGGCTGAAAGACTGAAAATAGAAGCCACTTATGAATCAGTGTGTTCCATCAA
CTACAAGAAATAAAGGGAGTTCAGCAAGATGAAGCTCTCCAAGTCCAAAAGACCTAGATTATTTGACTATCAGG
GATGTGTCTTTGTCCCATGAAGTTCGAGAGAACTACATTTTAGTCGTCCACAGACGATCGGGGCTGCTAGTCGC
ATACCCGGAGTAACACCTGCCGCCATCATCAATCTGCTGAGATTTGTGAAGACCACTCAACGAAGACAGTCGGCT
ATGAATGAATCATCCAAGACTGATCAATACTTATGTGATGCAGACAGACTTCAAGAGAGAGAGTTATAGCTTTCA
ATTCATAAAAGATTTTTAAAGAGCATATAAAATAATTTGATCAATACAACAGTATAGATAAAAGAATTATTTAGCA
CATGTTAAAATAGCTTTATTAGGTTACTATGGGTTTGCCATTAATTTCTGAGTGGGACAGAAATTATAATTGTGC
TTTTTCGTGTATATGAAAAAACTAGTCGTAAACAATTTGTACTCTTTCTTTAAGGAGCTGTAATACAAATAACTT
TGTGCAGTGTTCATCAAAGAGAGAGACAGTGAACCTAAAAGTGAACCTGGAATAAACTCAACATGCAGATTTGC
CTACTCATAGGGACTTTGCCTATTAAGTCTACCAAATTAAGTCTTATCATTACAGCGTGTGTTGAGAGTTAATA
ATCTTTTGCTTGGTTATACTAGGCTAGGAAGCAATATCAAAGCCCTTAAATTCTCAAGACTAAAGACTTGAGATT
ATATAAAATTATCCAGAATCATTACGCTAATACTATTGGAATATAGTATGTAGGGTGAAAGTTGACAGAAATCTG
TACTTCTCAGGAAATCCTCACTGGTAATTGTTTTGAACATTAATGAAAGCCCTATAAAATAGAAAGATTGGAAA
TCACCATTTGTTTCTATTATCCACAGTGTGGATGGATACTTATTTGGTGACCTAGTTATGGGAGAATTGAGTAAC
GTTAGTTATTTTATATCATACCATAAAAAATATTTTC

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FIGURE 2067

MFYFRGCGRWVAVSFTKQQFPLARLSSDSAAPRTPHFDVIVIGGGHAGTEAATAAARCGSRTLLLTHRVDITIGQM
SCNPSFGGIGKGHLMREVDALDGLCSRICDQSGVHYKVLNRRKGPAVWGLRAQIDRKLYKQNMQKEILNTPLLTV
QEGAVEDLILTEPEPEHTGKCRVSGVVLVDGSTVYAESVILTGTFLRGMIVIGLETHPAGRLGDQPSIGLAQTL
EKLGFVVGRLKTGTTPPRIAKESINF SILNKHIPDNPSIPFSFTNETVWIKPEDQLPCYLTHTNPRVDEIVLKNLH
LNSHVKETTRGPRYCPSIESKVLRFNRLHQVWLEPEGMDSDLIYPQGLSMTLPAELQEKMITCIRGLEKAKVIO
PDGVLLLLPRMECNGAISAHNLPPLPGYGVQYDYLDPRQITPSLETHLVQRLFFAGQINGTTGYEEAAQGVIA
INASLRVSRKPPFVVSRTGYIGVLIDDLTLGTSEPYRMFTSRVEFRLSLRPDNADSRLTLRGYKDAGCVSQQR
YERACWMKSSLEEGISVLKSIEFLSSKWKKLIPEASISTSRSLPVRALDVLKYEEVDMDSLAKAVPEPLKKYTKC
RELAERLKIEATYESVLFHQLEIKGVQQDEALQLPKDLTYLTIRDVLSHEVREKLHFSRPQTIGAASRIPGVT
PAAIINLLRFVKTTRRRQSAMNESSKTDQYLCADRLQEREL

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FIGURE 2068

CTCATTTAAC TTTTTTAATGGGTCTCAAAATTCTGTGACAAATTTTGGTCAAGTTGTTTCCATTAAAAAGTACT
GATTTTAAAACTAATAACTTAAACTGCCACACGCAAAAAAGAAAACCAAAGTGGTCCACAAAACATTCTCCTT
TCCTTCTGAAGGTTTTACGATGCATTGTTATCATTAAACAGTCTTTTACTACTAACTTAAATGGCCAATTGAAA
CAAACAGTTCTGAGACCGTTCTTCCACCACTGATTAAGAGTGGGGTGGCAGGTATTAGGGATAATATTCATTTAG
CCTTCTGAGCTTTCTGGGCAGACTTGGTGACCTTGCCAGCTCCAGCAGCCTTCTTGTCCTGCTTTTGATGACAC
CCACCGCAACTGTCTGTCTCATATCACGAACAGCAAAGCGACCCAAAGGTGGATAGTCTGAGAAGCTCTCAACAC
ACATGGGCTTGCCAGGAACCATATCAACAATGGCAGCATCACCAGACTTCAAGAATTTAGGGCCATCTTCCAGCT
TTTTACCAGAACGGCGATCAATCTTTTCTTCAGCTCAGCAAACCTTGCAATGCAATGTGAGCCGTGTGGCAATCCA
ATACAGGGGCATAGCCGGCGCTTATTTGGCCTGGATGGTTTCAAGGATAATCACCTGAGCAGTGAAGCCAGCTGCTT
CCATTGGTGGGTCAATTTTGTCTGTCACCAGCAACGTTGCCACGACGAACATCCTTGACAGACACATTCTTGACAT
TGAAGCCACATTGTCCCAGGAAGAGCTTCACTCAAAGCTTCATGGTGCATTTGACAGATTTTACTTCCGTTG
TAACGTTGACTGGAGCAAAGGTGACCACCATAACGGGTTTGAGAACACCAGTCTCCACTCGGCCAACAGGAACAG
TACCAATACCACCAATTTTGTAGACATCCTGGAGAGGCAGGCGCAAGGGCTTGTGAGTTGGACGAGTTGGTGGTA
GGATGCAGTCCAGAGCCTCAAGCAGCGTGGTTCCACTGGCATTGCCATCCTTACGGGTGACTTTCCATCCCTTGA
ACCAAGGCATGTTAGCACTTGGCTCCAGCATGTTGTCACCATTCCAACCAGAAATTGGCACAAATGCTACTGTGT
CGGGGTTGTAGCCAATTTTCTTAATGTAAGTGCTGACTTCCTTAACAATTTCTCATATCTCTTCTGGCTGTAGG
GTGGCTCAGTGAATCCATTTTGTAAACACCGACAATTAGTTGTTTTCACCCAGTGTGTAAGCCAGAAGGGCAT
GCTCTCGGGTCTGCCATTCTTGGAGATACCAGCTTCAAATTCACCAACACCAGCAGCAACAATCAGGACAGCAC
AGTCAACCTGAGATGTCCCTGTAATCATGTTTTTGATAAAGTCTCTGTGTCCTGGGGCATCAATGATAGTCACAT
AGTACTTGCTGGTCTCAAATTTCCACAAGGAGATATCAATGGTGATACCAGTTACGCTCAGCTTTCAGTTTAT
CCAAGACCCAGGCATACTTGAAGGAGCCCTTTCCCATCTCAGCAGCCTCCTTCTCAAATTTTCAATGGTTCTTT
TGTCGATGCCACCGCATTTATAGATCAGATGGCCAGTAGTGGTGGACTTGCCGAATCTACGTGTCCAATGACGA
CAATGTTGATATGAGTCTTTTCTTTCCCATTTTGGCTTTTAGGGGTAGTTTTACGACACCTGTGTTCTGGCGG
CAAACCCG

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FIGURE 2069

ACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATA
TCAACATTGTCGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTACTGGCCATCTGATCTATAAAATGCGGTG
GCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCT
GGGTCTTGGATAAACTGAAAGCTGAGCGTGAACTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCA
GCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTTATCAAAAACATGATTACAGGGACATCTC
AGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAGAATGGGCAGA
CCCAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTCGGTGTTAACAAAATGGATTCCA
CTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATGGCT
ACAACCCCGACACAGTAGCATTGTTGTCCTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAAGTGCTAACA
TGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGCTTGAGGCTCTGG
ACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCCTTGCCTGCTCTCCAGGATGTCTACAAAATGGTG
GTATTGGTACTGTTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCTTTGCTCCAG
TCAACGTTACAACGGAAGTAAATCTGTGCAATGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATG
TGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACC
CACCAATGGAAGCAGCTGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCGCCGGCTATG
CCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGTGAGCTGAAGGAAAAGATTGATCGCCGTT
CTGGTAAAAAGCTGGAAGATGGCCCTAAATCTTGAAGTCTGGTGATGCTGCCATTGTTGATATGGTTCTGGCA
AGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAG
TTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAAG
CTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAAGAACGGTCTCAG
AACTGT

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FIGURE 2070

CCGGCTCGCGCCCTCCGGGCCCAGCCTCCCGAGCCTTCGGAGCGGGCGCCGTCCCAGCCCAGCTCCGGGGAAACG
CGAGCCGCG**ATG**CCTGGGGGGTGCTCCCGGGGCCCCGCCCGGGGACGGGGCGTCTGCGGCTGGCGCGACTAGCG
CTGGTACTCCTGGGCTGGGTCTCCTCGTCTTCTCCACCTCCTCGGCATCCTCCTTCTCCTCCTCGGCGCCGTTT
CTGGCTTCCGCCGTGTCCGCCAGCCCCGCTGCCGGACCAGTGCCCCGCGCTGTGCGAGTGCTCCGAGGCAGCG
CGCACAGTCAAGTGCCTTAACCGCAATCTGACCGAGGTGCCACGGACCTGCCCCGCTACGTGCGCAACCTCTTC
CTTACCGGCAACCAGCTGGCCGTGCTCCCTGCCGGCGCCTTCGCCCCGCCGCCGCTGGCGGAGCTGGCCGCG
CTCAACCTCAGCGGCAGCCGCCCTGGACGAGGTGCGCGCGGGCGCCTTCGAGCATCTGCCAGCCTGCGCCAGCTC
GACCTCAGCCACAACCCACTGGCCGACCTCAGTCCCTTCGCTTTCTCGGGCAGCAATGCCAGCGTCTCGGCCCCC
AGTCCCCCTGTGGAAGTGATCCTGAACCACATCGTGCCCCCTGAAGATGAGCGGCAGAACCGGAGCTTCGAGGGC
ATGGTGGTGGCGGCCCTGCTGGCGGGCGTGCACTGCAGGGGCTCCGCCGCTTGAGCTGGCCAGCAACCACTTC
CTTTACCTGCCGCGGGATGTGCTGGCCCACTGCCAGCCTCAGGCACCTGGACTTAAGTAATAATTGCTGGTG
AGCCTGACCTACGTGTCTTCCGCAACCTGACACATCTAGAAAGCCTCCACCTGGAGGACAATGCCCTCAAGGTC
CTTACAATGGCACCCCTGGCTGAGTTGCAAGGTCTACCCACATTAGGGTTTTCTGGACAACAATCCCTGGGTC
TGCGACTGCCACATGGCAGACATGGTGACCTGGCTCAAGGAAACAGAGGTAGTGAGGGCAAAGACCGGCTCACC
TGTGCATATCCGGAAAAAATGAGGAATCGGGTCCTCTTGGAAGTCAACAGTGCTGACCTGGACTGTGACCCGATT
CTTCCCCCATCCCTGCAAACCTCTTATGTCTTCCTGGGTATTGTTTTAGCCCTGATAGGCGCTATTTTCTCCTG
GTTTTGTATTTGAACCGCAAGGGGATAAAAAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAA
GGGTATCATTACAGATATGAAATCAATGCGGACCCAGATTAAACAAACCTCAGTTCTAACTCGGATGTCT**TGAGAA**
ATATTAGAGGACAGACCAAGGACAACCTCTGCATGAGATGTAGACTTAAGCTTTATCCCTACTAGGCTTGCTCCAC
TTTCATCCTCCACTATAGATACAACGGACTTTGACTAAAAGCAGTGAAGGGGATTTGCTTCCTTGTTATGTAAAG
TTTCTCGGTGTGTTCTGTTAATGTAAGACGATGAACAGTTGTGTATAGTGTTTTACCCTCTTCTTTTTCTTGAA
CTCCTCAACACGTATGGAGGGATTTTTAGGTTTCAGCATGAACATGGGCTTCTTGCTGTCTGTCTCTCTCAG
TACAGTTCAAGGTGTAGCAAGTGTACCCACACAGATAGCATTCAACAAAAGCTGCCTCAACTTTTTCGAGAAAAA
TACTTTATTCATAAATATCAGTTTTATTCTCATGTACCTAAGTTGTGGAGAAAATAATTGCATCCTATAAACTGC
CTGCAGACGTTAGCAGGCTCTTCAAATAACTCCATGGTGCACAGGAGCACCTGCATCCAAGAGCATGCTTACAT
TTTACTGTTCTGCATATTACAAAAATAACTTGCAACTTCATAACTTCTTTGACAAAGTAAATTACTTTTTTGAT
TGCAGTTTATATGAAATGTACTGATTTTTTTTTTAATAAACTGCATCGAGATCCAACCGACTGAATTGTTAAAAA
AAAAAAAAAATAAAGATTCTTAAAGAA

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FIGURE 2071

MPGGCSRGPAAGDGRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECSEAARTV
KCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALNLSGSRLDEVRAFAFEHLPSLRQLDLS
HNPLADLSPFAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQGLRRLELASNHFLYL
PRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLESLHLEDNALKVLHNGTLAELQGLPHIRVFLDNNPWVDCD
HMADMVTWLKETEVVQKDR LTCAYPEKMRNRVLLELNSADLDCDFILPPSLQTSYVFLGIVLALIGAIFLLVLY
LNRKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV

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FIGURE 2072

CCTGGAGGCCGGCTTGGCGGCCAGGCGCAAGTTCGCGACGTCACCCGATCCGACCCTGGTACCCGGAGCGGCCCT
GGCGCGGCTGTCGGCTGGCACCAGCTCCCTGCAGGAAGAGTGGAGAGGTTGTTCCCGCGGGGAGCGGGTACCGG
CCGCATCCCGGCCGGACCAGGGAGCCTGGGCGCCGGCAGTTCGGCTGCTGGTGTTTAATGTGTGTTTTTGGTCTT
CTCCCCAAGCAATGGAAACAGAGTTGCTGCTTCAGTGGTAGTAGTACTTGCAATTCAAGTAACACTAACTTAAAA
TCTACTTTAGACACAGTGGGCGATAGTATGAAAGAACCAAGAAGGATTTCGGCTGTCCTGGAGCTGATAATGCTG
CAAACAAGCCATGATGAGATGTTCTCCACATTTACAAAATCCGGGAGACTGCGGATGGGCTGTGCCTGGAGGTG
GAGGGGAAATTGGTAAGTAGGACAGAGGGTAACATTGATGACTTGCTCATTGGTGGAAATGCCTCCGCTGAAGGC
ACTGAAAGCGAAGGCAAACTTGAAGAACAGAGACCAGAAAAGATAAAACCTTTTATGACAGGGGCTGCAGAACAA
ATCAAACACATCCTTGCTAATTTCAAAGCTACCACTTCTTTATTGGTGAAAACATGAATCCAGATGGCATGGTT
GCTCCACAGGACTACCAAATAGAAGTTCAAGCTTCGGATGACACTGAAAGGTGTTCAAGGAGATTTTGGTTCCACT
AGAAATAATGAAAATTTATGCCAAGAATAG

2256/6881
FIGURE 2073

MCVFGLLPKQWKQSCCFSGSSTCNSSNTNLKSTLDTVGDSMKEPRRISAVLELIMLQTSHEMFSHIYKIRETAD
GLCLEVEGKLVSRTEGNIDDLIGGNASAEGTESEGLEEQRPVVKPFMTGAAEQIKHILANFKSYHFFIGENM
NPDGMVAPQDYQIEVQASDDTERCSGDFGSTRNNENLCQE

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FIGURE 2074

AGAGAGGAGCCGACTCGGCAGGGACTGGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCCGTAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGGAAGGGAAGG
GAAGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACCTGGATCGG
GTTTGCTGCCAGCGGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCACGCGTTTCCCGCAACCCGATACCATCGGACAGGATTTCTCCGCCTCAGCCCAACGGGGAGATCTCTGGAAAC
ATGGCTACAGAACATGTTAATGGAAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGCAAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG
GCACTCTTGAAAGAACAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTATTAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACTTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTCTGGAAAAATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAAACAGAGGCTTTTGCTTTCTTGAATATGAAGATCAGAAAAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAACCTGTTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAAGTGCTGTTTGTACGCAACCTTGCCAATACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCATTTTGTATGAGCGAGAIGGTGCTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGGAGGGAGAAAAAT
ATTGAAATTTGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAAT
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTCGTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTCACAG
AGAGGAGGTCTGGATCAGCAAGAGGCGTTCGAGGTGCGAGAGGAGGTGCCCAACAACAAAGAGGCCGCGGGTA
CGTGGTGCGAGGGGTGGCCGCGGTGGAAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACTATGGTTACAAATCTGAAAACCAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGGAAGTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACAATCCGCTTGACACGAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAACTGATTTTATTTTAAATTTTTTCAATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCATTTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCAACGATGTTTCCA
GTAGTGTTTAGATTGGTGTCTTCAAAGGTAGTTGATTAAAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACACAAGTCTATTTTTAATTTAGAACTT
TGACCTAATTTGGGTTTTCAAACCATTTTGGCTACTTGATTTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 2075

ATGCGGTGCGGCTTTGCGCGGCTATTGCTTGCCAGCTTTCAGAGTGTTGAATCTTCCACCAGAAACTTGATC
ACATCAATATCTGCAGTTCCAATTTCCCAAAAAGAAGAAGTAGCTGATTTTCAGCTTTCTGTGGATTCTTTATTG
GAAAAAGACAATGACCATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGCTAAGATGTGAT
ACAGTGGTGAGTGAAATCAGTACTGGTCAAAGGACTGTAAATTTCAAAATAAACAGAGAGCTCTTAACAAAGACA
GTGCTACAACAAGTAATTGAAGATGGCTCAAAATATGGATTAAAAAGTGAACCTTTTCTCTGGACTTCCCCAGAAG
AAGATTGTGGTTGAATTCAGTTCACCTAATGTTGCCAAAAAATTTTCATGTTGGACATTTGCGTTCTACCATCATA
GGAAATTTTATAGCAAATCTCAAAGAAGCTTTAGGACATCAAGTAATAAGAATAAATTACCTTGGCGATTGGGGC
ATGCAGTTTGGTCTTCTGGGAACTGGCTTCCAGCTGTTTGGCTATGAGGAAAACTGCAGTCCAATCCTCTACAG
CATCTCTTTGAAGTTTATGTACAAGTTAATAAAGAAGCAGCAGATGATAAAAGTGTAGCAAAAGCAGCACAGGAG
TTCTTCCAACGATTGGAAGTGGGCGATGTGCAAGCACTTTCAGTGTGGCAAAATTTTCGGGACTTGAGCATTGAA
GAGTACATTTCGGGTTTACAAGCGTCTGGGAGTATATTTTGATGAATATTCAGGAGAATCATTTTATCGTGAAAAA
TCTCAAGAGGTCCTAAAGTTGCTGGAGAGTAAAGGACTCCTACTGAGAACAATAAAAGGAACGGCTGTAGTAGAT
CTCTCTGGGAATGGCGACCCCTCCTCAATTTGTACTGTAATGCGAAGTGATGGGACTTCTCTCTATGCAACCAGA
GATCTTGCAGCTGCTATAGATCGAATGGACAAGTATAATTTTGATACAATGATATATGTGACAGATAAAGGACAA
AAAAAGCATTTTCAGCAAGTATTCCAAATGCTGAAGATCATGGGATATGACTGGGCAGAAAGGTGCCAGCACGTG
CCCTTTGGAGTAGTACAGGGAATGAAGACTCGAAGAGGAGATGTCACTTTCCTGGAAGATGTTTTAAATGAGATT
CAATTAAGGATGCTACAGAACATGGCTTCAATTAAGACAACATAAAGAACTCAAGAACCCACAAGAGACTGCAGAG
AGGGTCGGGCTCGCAGCACTCATTATTCAGGACTTCAAAGGTTTACTCTTATCTGACTACAAGTTCAGCTGGGAT
CGTGTTTTCCAGAGTCGCGGGGACACAGGAGTCTTCTACAGTACACACACGCCCGCTCCACAGTTTGGAAAGAG
ACTTTTGGATGTGGGTACCTGAATGACTTCAACACTGCTTGTTTACAAGAGCCACAGTCTGTTTCAATTCTTCAG
CATCTTCTCAGGTTTCGACGAGGTGCTTTATAAATCATCTCAGGACTTTCAACCCAGGCATATCGTCAGTTACCTT
CTAACTTTAAGTCATCTTGCAGCTGTGGCACACAAACACTACAAATAAAAGATAGTCCTCCTGAAGTGGCTGGG
GCCAGACTTCATCTTTTCAAAGCTGTCCGTTCTGTCTAGCCAATGGAATGAAACTTCTTGGAATAACACCTGTA
TGTAGGATGTAA

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FIGURE 2076

MACGFRAIACQLSRVLNLPENLITSISAVPISQKEEVADFQLSVDSLLEKDNDHSRPDIQVQAKRLAEKLRCD
TVVSEISTGQRTVNFKINRELLTKTVLQQVIEDGSKYGLKSELFSGLPQKKIVVEFSSPNVAKKFHVGHRLRSTII
GNFIANLKEALGHQVIRINYLGDWGMQFGLLGTGFQLFGYEEKLQSNPLQHLEFVYVQVNKEAADDKSVAKAAQE
FFQRLELGDVQALSLWQKFRDLSIEEYIRVYKRLGVYFDEYSGESFYREKSQEVCLKLESKGLLLRTIKGTAVVD
LSGNGDPSSICTVMRSDGTSLYATRDLA A AIDRMDKYNFDTMIYVTDKGQKKHFQQVFQMLKIMGYDWAERCQHV
PFGVVQGMKTRRGDVTFLLEDVLNEIQLRMLQNMA SIKTTKELKNPQETAERVGLAALIIQDFKGLLLSDYKFSWD
RVFQSRGDTGVFLQYTHARLHSLEETFGCGYLNDENTACLQEPQSVSILQHLLRFDEVLYKSSQDFQPRHIVSYL
LTLSHLA AVAHKTLQIKDSPPEVAGARLHLFKAVRSVLANGMKLLGITPVCRM

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FIGURE 2077

TTTTTTTTTTTTTTGTTTCCTGAATTATTTAAGTTTCTTATAGATTCTGGATATTAGACCTTTCTTAGATGCATA
GCTTATGAATATTTTCTCCATTATTTAGGTTGTAGGGAAAGGGAGAGCTTTTGATTTTTTTAAGCATTACAGA
TAATGTTGAAGTCACTGATATATATTTGTTTGAAGTGCATTCCCTACCCTGCTTCCCTAGAGAGAAGTATCTCAT
GATGCAAAATGATTTATTTTACGAATCAGTTGCTTTGTGTTGTTTCTTTGTTTTTGTATTTTTTTTACCTAC
CCAGTGAAAAGGATAAATGGCATTGTCCATCTCTTTAATGAAGTACTGAGTGTTAAGAAGAATATTCTTCTTTT
CTCATGTTGAACTCAAATTACAACATTTAAAAAATATGTCATTTGGAGGTCAGTGGAGAGGTTTGAATTAGAAG
CATGTATTTGGAGTAGTAGAGGAAGCATTGTAGAAGAGGTAAAGAGACCTGGGCTTTTTTCTCAGTCTGTTTTT
TTTGCAGTAGGATTTTAAAGGAGACATTTAGCTTGCCAGACATCAGTTTTTCATGCTATAAAATAAGGTGGCTAG
TATAAGAGGAAGAATTTTTGAGACTAGGTCTTGCTCTGTCACCCAGACTGGAGTGCAGTGGCATGATCTCGGCT
CACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCGTGCCCTAAGCCTCCCGAGTAGCTGGGCTTACGGGCACA
TGCCACCACGCCTGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTTTCCATGTTGGCCAGGCTGGTCTCAAA
CTCCTGACCTTAAGTGGTCCACTTGCCCTCGGCCCTCCCAAAGTGCTGGGATCTGTGCCCAGACAGAAGAGGAAGAA
TTTTATTAAGATGATAAGAAAAACATTCTGAATAAAATACTAGGTTATTTCTCATTTTCTTGCTTTTAATTTTGT
TTTATTTATTTATTTATTTTATTTTACTTTTTTGAGACAGAGTTTCGCTCTTGTCACCCAGGCTGGAGTGCAGTG
GCACAATCTTGACTCGCTGCAGTCTCCACCTCCAGGATTCAAGCGATTCCCCTGCCTCAGTCTCCCAAGCAGCTG
GGATTGTAGGTACACACCACCATGCCTGGCTAATTTTTGTGTGTGTGTGTGTATTTTTAGTAGAGATGGGGTTTT
ACCATGTGGCCAGGCTGGTCTAGAACTCAACCTCAGGTGATCCGCCTGCCTTAGCCTCCCAAAGTGCTGGGATTA
CAGGCATGAGCCACCGCTCTCGGCCCCCTTGCTTTTAATTTTGAAAGTACACATAACACCTTCTTCTGGTAAAGG
TATGTCTCAATGGAGAAGTATAGTATTAGTCTTTGTTTAAACAATAATGCTTTTAAGGTAACAGTTCTATCTC
GTTTCGATGTCTGTCTTTAGAGAAGTAGCTGATTTTCAGCTTTCTGTGGATTCTTTATTGGAAAAAGACAATGAC
CATTCAAGACCAGATATTCAAGTTCAAGCCAAGAGACTAGCAGAGAAGGTACGTTAGCACTATTATCTCTTTTTG
ACATTGTAATAAACTTGTTATTAATAAAAAAGTACTTTGCAGGCTATCTCAGCCATAATAGTGAATTTAATAGTGT
TCTTTGAGGCATCTTGTTGTAATATAATTTAAATTCATTTTAGCCATGTACTATAAGGTTATAATGATTTTTCAGA
TTAGTTATAAAGCACTCCTCTTGAGCTGACATTGTTCAATTTTTTGATTAAACCACTTACAGGAAGACTGAAGTGT
TAATTAAATTTACAGATTGAAGCTGG

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FIGURE 2078

MPRLANFCIFSRDGVFPCWPGWSQTPDLKWSTCLGLPKCWDLCPPDRRGRIL

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FIGURE 2079A

GATTGCCCCCTGTGGGTCACTTTCTCAGTCATTTTGAGCTCAGCCTAATCAAAGACTGAGGTTATGAAGTCGATC
CTAGATGGCCTTGCAGATACCACCTTCCGCACCATCACCCTGACCTCCTGTACGTGGGCTCAAATGACATTGAC
TACGAAGACATCAAAGGTGACATGGCATCCAAATTAGGGTACTTCCACAGAAATTCCCTTTAACTTCCTTTAGG
GGAAGTCCCTTCCAAGAGAAGATGACTGCGGGAGACAACCCCCAGCTAGTCCCAGCAGACCAGGTGAACATTACA
GAATTTTACAACAAGTCTCTCTCGTCCTTCAAGGAGAATGAGGAGAACATCCAGTGTGGGGAGAAGTTTATGGAC
ATAGAGTGTTCATGGTCCTGAACCCAGCCAGCAGCTGGCCATTGCAGTCCTGTCCCTCACGCTGGGCACCTTC
ACGGTCCCTGGAGAACCTCCTGGTGCTGTGCGTCATCCTCCACTCCCGCAGCCTCCGCTGCAGGCCTTCCTACCAC
TTCATCGGCAGCCTGGCGGTGGCAGACCTCCTGGGGAGTGTCAATTTTTGTCTACAGCTTCACTGACTTCCACGTG
TTCCACCGCAAAGATAGCCGCAACGTGTTTCTGTTCAAACCTGGGTGGGGTTCACGGCCTCCTTCACTGCCTCCGTG
GGCAGCCTGTTCTCACAGCCATCGACAGGTACATATCCATTACAGGCCCCCTGGCCTATAAGAGGATTGTCCACC
AGGCCCAAGGCCGTGGTGGCGTTTTGCTGATGTGGACCATAGCCATTGTGATCGCCGTGCTGCCTCTCCTGGGC
TGGAAGTGCAGAACTGCAATCTGTTGCTCAGACATTTTCCACACATTGATGAAACCTACCTGATGTTCTGG
ATCGGGGTACACAGCGTACTGCTTCTGTTTCATCGTGTATGCGTACATGTATATTCTCTGGAAGGCTCACAGCCAC
GCCGTCCGCATGATTACAGCGTGGCACCAGAAGAGCATCATATCCACACGTCTGAGGATGGGAAGGTACAGGTG
ACCCGGCCAGACCAAGCCCCGATGGACATTAGGTTAGCCAAGACCCTGGTCTGATCCTGGTGGTGTGATCATC
TGCTGGGGCCCTCTGCTTGCAATCATGGTGTATGATGTCTTTGGGAAGATGAACAAGCTCATTAAAGACGGTGT
GCATTCTGCAGTATGCTCTGCCTGCTGAACCTCCACCGTGAACCCCATCATCTATGCTCTGAGGAGTAAGGACCTG
CGACACGCTTTCCGGAGCATGTTTCCCTCTGTGAAGGCACTGCGCAGCCTCTGGATAACAGCATGGGGGACTCG
GACTGCCTGCACAAACACGCAACAATGCAGCCAGTGTTACAGGGCCGAGAAAGCTGCATCAAGAGCACGGTC
AAGATTGCCAAGGTAACCATGTCTGTGTCCACAGACAGCTGTCCGAGGCTCTGTGAGCCTGATGCCTCCCTGGC
AGCACAGGAAAAGAATTTTTTTTTTTAAGCTCAAAATCTAGAAGAGTCTATTGTCTCCTTGGTTATATTTTTTTA
ACTTTACCATGCTCAATGAAAAGGTGATTGTCAACCATGATCACTTATCAGTTTGCTAATGTTTCCATAGTTTAGG
TACTCAAACCTCATTCTCCAGGGGTTTACAGTGAAGAAAGCCTGTTGTTTAAAGTGAAGTGAACGATCCTTCAAAGT
CTCAATGAAATAGGAGGGAAACCTTTGGCTACACAATTGGAAGTCTAAGAACCCATGGAAAAATGCCATCAAATG
AATAATGCCTTTGTAACCACAACCTTTCACTATAATGTGAAATGTAAGTGTCCGTAGTATCAGAGATGTCCATTTT
TACAAGTTATAGTACTAGAGATATTTTGTAAATGTATTATGTCCTGTGAGATGTGTATCAGTGTTTATGTGCTA
TTAATATTTGTTTAGTTTACGCAAACTGAAAGGTAGACTTTTATGAGAACAATGGACAAGCAGTGGATACGTGTC
AATGTGTGCACTTTTTTTCTATATTATTGCCCATGATATAACTTTAGAAATAAACCTTAATATTTCTTCAAATAT
CTCTATTTAATTTTGACACTGAAATAACCGTAAAGGTTTATTTTTCTGTTACCTCAACAAGAAGAATTTGAAGAC
TTCAAATATTGAGCAGAATTCATTACATACTTAAAAATTTATAGCCCTGCATTTTTCATAGGAAGACACATTATC
TTCTGGACTATAGCTGTTCTAATGGATTATAATCAGAATGGAAGAGAGAAAGCATATTGACTTTTTTTGAGCGAC
ATCTCTGACTTTCTTTAGTCTTTAGCTATTACTGGAATCTCTTAAGACAGCATGTGTTAATCTTAATGTATATCGT
TATCACTGTGCAGTTGCTGTTTACTTGAATAGTATTGTGTTCCCTATATTCCAGGTTTAAAGTAGATTTTCATGCCTG
GGTGGCCAAACAACAGTCTTCATTTTTTTTTAATTGAAAAGAAGTAGTGTCTGGATCAGTAAATTTACTGTGTG
TGAGTGTGAATATAAATGTGTGTATGTGTGTTTCTGTCTGTAAGTGTACAGTAATGTCATAAAGTGAGAAAAAC
TGTGACCAAGTATAAACTTTTACCACCTTGCTGCACCTCTTGACATGGATTGAGTTTCTAAAATTGAGTTCTTCT
GTAATCTTGTGATAAAAAATACTGACTCCAACCATTCAAAAATTTACCCCCATCCCTCCTTAAGAGATTGGATCA
AGTATTACTAAATTGACCTTTAGGTATTACACAAGACCAGTGCTTAGCAAAAAATAATGACAGGCATCCAAGGAA
GGGATGTATTTGTAGTGTATTGTCAGGAAAGGAGAGTACTTTGGTTTCTGAGCACCAGTATTGAGCAATATGT
CAGTCACTAAAAGGAAGACAGTTCTACAGAAAAACAATGGTAACATTTTTCAATAGCGTGTGTAGATAGTATGCA
CTATATACATCACGTTAAAGTAGGACTATCACACCCAGCCCATGTGGCTAAAAAGCTGAATCAGACAGTGGATG
AGACACACAACGGCAGTGAAGAACCGATACACTTGGCATTGACGTCTAGCTATGCTGTATCTGTGCTTTGCCAC
ATGCCCTTGGTGACAGCTGAGCACCAGCTCTGTCTTGGTAGGTTTGGGCTAAGGAACAAATCTCTCCTTTGCTC
GTGGTTAGCAAGATACACTCAAGCATGAAGATAAACACAGCTGCTTTCTTCTTACACCCCGGTCTCATGCTCCTT
AATGGCGCCATGGGTGCTTGTGCGCCTTTTCCAGTAAGGAATGATATTGCTGAAGAATCTACTTAACCCTGAC
AAATTTTAATTATAATCTCTTCTTATACAGATAAAACATGACTCCTACAAGGCCCCAAGGTTTACATAGTCTGAA
GTGAAGTACAGAGCTGGCATCTATCTGGTGATTCTAGCTCTCGAGATACCCAAGCAGCCTGATGGGGCAGTTCC
CCTTCTTACGGTTACGCTCTAAGGCAGGATGTGGCTTATGAGATACTTTGCATTGTCTGTCTGCACACCTTGAA

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FIGURE 2079B

TCTGCCTGCTGGCTCCCTTACCTTCTCTGTGCATGTGCAGATGAAGGCTCAGGGTGCTAGAGGATTAGTAAG
ATCTCTTTCTAAAGACAGGAGAGATTATTTACAAGAAGAACTCACCAGGGTTTAGTTTGCTTTAAGAATTGCCA
GTCTTTTGTCTGCATCATCTTGAACATTAATCCACATGTTTCAGAGCTCACCAGGCAGTACCAATGCTCTTTTC
ACAGCTATGAAGAGCTAGAGAAATCTTGTTATGGTAGAAAAATTTACGATTTCATTTTTGAAACTGCATTTGTG
CGTATGCAGTGTAGATTTTATAGTGTGTTGTGCTTTCAAGATCTAAATCATATATAATAAAATTAAGGGACAATGG
GGCTGACAGCACTAACTTGGTGCTTATTGATATTCTAAGAAATATCTGTGAAATATCATCACGTATGTTATACA
ACCTTCATTTAAAAAGGTTTAAAACTAGTTAGATTCACTTTGACACTTTTCATATCATTTCCTTAACCCCAAGTGAC
GAAACATTGTCCCCAATGAATATACTCATTAGAATTACCATTGTTAATATCACTCATTAAATTAACCCCAAT
TAGATCCATTAAATTTAAATGATTTAAATTTAAGTAAGTTTTATAAGGCTCTGACATCAGAGGTATCTTACTTTCT
CTGAGGATGATGTACTTGCCCTGACCATGCATTTTACCATCACACATGTTTCAGAAAGGGCCAAATTTCCCAACCTG
CTCATTTTTTTTTTATCAGAGTCATGATGAATCAGTCCTAGAATGTTTCATTTGCACAAGTAGGGCTGCCTCCAA
GAGGAACCTCTGATTTATTTTGTATGAAATATATGTGAAAGGATATGAATCTGAGAGATGCTGTAGACATCTGTC
CTACACTTGAGATGATTTCCAAGCCTCTCTGGCACTTTGAGTTAAGTCTATCTGGTATTAAATGCCAAGGACCTT
TTGCTGCCTAAATCCACTCTGCAGGAAATAGGCCCAACCACCAGATGAGAATTAGGCCCTGGATGAGTAGCGCTA
TAGTTACTGTCCTGTTGATTAATTTCTGCCATTTTCATGTCCATAAAAGAGACCACCCATATCATGCACACAATTA
GATTTCTCACACTCTAACTGTATATTTGTATGATATTTTAAATCTCCTAAATGCTGGGCAATGGCTATTAAACAA
TTAATTGCTTGCCTGACTGGCCTTCTGATGAAATGTTAACAATGCCTATTGTAATATAGAAAAAACATTCTATCTA
CTGATTTGGGCTGAATGTATGTAAATAGGTTTCTAAAAAGTCAGATGTTTGAGCAGTGGCCTACAAATCAGTAAT
TTTCGGATGGGAGAGTTTCTTTACATTGCCGTGGCATCTTAAAAGCTATCTTCATGTAAATTGACTGTACTAGGC
CTACTGGGGATCAGAGTTCCCAAGAAAGGAAACCTTTTCTGTATCTGGATTCAAATTTATTTCCAATGTTTCAA
GCGGGAAACATGACTCTTTATTGTCTGTAAATCTAACATTATTACTTTTCCTCTTAGAAGAATATTGTATTGTTA
GATGTTTGTGAGCTGGTAACATCGTTGCAACCACTGCAATATCTTCGTTAGTAATCTGTATAATACTTTGTATA
CAAGTACTGGTAAGATTGTTATTAAATGTAGCTTCAGTCATTAAATTACTATAGCAAAGTAGTACTTCTTCTGTA
ATATTTACAATGTATTAAGCCACAGTATATTTTATTTCAATGTAATTAACTGTAACTTATTCAAAGAGAAAA
CATCTCATCATGTCTATTGTCCAAAGTTACCTGGAATCAAATAAAAAATTTCTAGATTACCATGAAGAACATA

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FIGURE 2080

GAGCGCGGTTACCGGACGGGCTGGGTCTATGGTCGCTCCGCGGGCCGCTCCGCCGGCTGGTGCTTTTTTATCAGG
GCAAGCTGTGTTCCATGGCAGGGAACTTTTGGCAGAGCTCCCACTATTTGCAATGGATTTTGGATAAACAAGATC
TGTTGAAGGAGCGCCAAAAGGATTTAAAGTTTTCTCTCAGAGGAAGAATATTGGAAGTTACAAATATTTTTTACAA
ATGTTATCCAAGCATTAGGTGAACATCTTAAATTAAGACAACAAGTTATTGCCACTGCTACGGTATATTTCAAGA
GATTCTATGCCAGGTATTCTCTGAAAAGTATAGATCCTGTATTAATGGCTCCTACATGTGTGTTTTTGGCATCCA
AAGTAGAGGAATTTGGAGTAGTTTCAAATACAAGATTGATTGCTGCTGCTACTTCTGTATTAAAACTAGATTTT
CATATGCCTTTCCAAAGGAATTCCTTATAGGATGAATCATATATTAGAATGTGAATTCTATCTGTTAGAACTAA
TGGATTGTTGCTTGATAGTGTATCATCCTTATAGACCTTTGCTCCAGTATGTGCAGGACATGGGCCAAGAAGACA
TGTGCTTCCCCTTGCAATGGAGGATAGTGAATGATACCTACAGAACGGATCTTTGCCTACTGTATCCTCCTTTCA
TGATAGCTTTAGCTTGCCCTACATGTAGCCTGTGTTGTACAGCAGAAAGATGCCAGGCAATGGTTTGCTGAGCTTT
CTGTGGATATGGAAAAGATTTTGGAAATAATCAGGGTTATTTTAAAACTATATGAGCAGTGGAAGAATTTTCGATG
AGAGAAAAGAGATGGCAACCATTCTTAGTAAGATGCCAAAACCAAACCACTCCAAACAGTGAAGGAGAGCAGG
GTCCAAATGGAAGTCAGAACTCTAGCTACAGCCAATCTTAAACATTCCGAAGAATTCCATAGTGGACCACTTGG
AAATAAACCATTTGGACAGATTTTCTAGTAATGTCTTCAGTGAACACAAATGAAAATGAATAGCTTGTCTGTCAA
GCATATTGGAAAGTGATTTTATTTTGGCAAATAAGTTTTTCTTTAATATGATTCTAGTACATAATTGATTAAAA
TCTCTTGATTATAAATGTTTGGAAAGGTTCTAAGGGGACCTACAGACAGACATACATAGACATTTCAAATTAAT
AGCTTTTGATTAGTATAATATTTCTTAATTTGGATAATAAAAATTGTAGCTTTTTTATTAAGCCAGGAAACATGAA
GCATAATTTGTTTAAATTTCTTTTGGTCATTGAGGGACCAAAAAAGGACGTAAAATTTACAGTCAATCTATGAG
GGTTTTTTTCCCTCCATAAGTTTAACTTTAAACTGTATTTAAGGAATCAAATCTTACAAAATCCTGGAAGATTT
TGGTAATGATGTTGATAATTTAGGGAAATTAATCAAGTACCTATATTGATTTAAAAGTGATTTTATTTCAGTAG
TTTGAGG

2265/6881
FIGURE 2081

AGTCTCCCCAGGTTGTAGACGCTGCGGCCCGGCCGCGGGTAAATAACAGATCGGGGTGAAAGATCCAACATAAA
GCTTTACCTGAGAAAGCCAAAAGAAGTAAAAGGCCTACTGTACCTCATGATGAAGACTCTTCAGATGATATTGCT
GTAGGTTTAACTTGCCAACATGTAAGTCATGCTATCAGCGTGAATCATGTAAAGAGAGCAATAGCTGAGAATCTG
TGGTCAGTTTGCTCAGAATGTTTAGAAGAAAGAAGATTCTATGATGGGCAGCTAGTACTTACTTCTGATATTGG
TTGTGCCTCAAGTGTGGCTTCCAGGGATGTGGTAAAACTCAGAAAGCCAACATTTCATTGAAGCACTTTAAGAGT
TCCAGAACAGAGCCCCATTGTATTATAATTAATCTGAGCACATGGATTATATGGTGTTATGAATGTGATGAAAA
TTATCAACGCATTGTAATAAGAAGGTTTGGCTCAGATAGTTGATTTTCTCCAGAAACATGCTTCTAAAACACAA
ACAAGTGCATTTTCTAGAATCATGAAACTTTGTGAAGAAAAATGTGAAACAGATGAAATACAGAAGGGAGGAAAA
TGCAGAAATTTATCTGTAAGAGGAATTACAAATTTAGGAAATACTTGCTTTTTTAATGCAGTCATGCAGAACTTG
GCACAGACTTATACTCTTACTGATCTGATGAATGAGATCAAAGAAAGTAGTACAAAACCTCAAGATTTTTCTCTCC
TCAGACTCTCAGCTGGACCCATTGGTGGTGGAACTTTCAAGGCCTGGACCACTGACCTCAGCCTTGTTCTCTGTTT
CTTCACAGCATGAAGGAGACTGAAAAAGGACCACTTTCTCCTAAAGTTCTTTTTAATCAGCTTTGTCAGAAGCGG
GTGCATCTACATTTAATAATAATAATTATGAGTTACAAAATACTAATGTATTTCATCATTTAACATGAATAGTCGT
TTTTACTGTAACCTTGCTCTTATTGCCCTGACTATGAAGAGAACTAAAATTTGTTACAGCTCTATGCTTTATGAA
AATTATATCTCAGTCCTCAGAAGAAGCAGCTTATCCTCATATATAAGGAAATGGAGACACAGAAATTAATGGCT
CACCTAGTCTGAGTGAAAGCTGAGAATCAAATGGAGATCTGTCTGACTTGGATGCCTATGTTGTAATACCATA
AAGTGAGAAAACCATAGAGTTGTAAAATCTAGAAAAGTACCGTAAGATAACATCTAATCTAGCTTTCTTATTTAA
AAGATGAGCTGTGAGGCAAATAGAGTTTAAGTGAATTTCTCAAGGTATTACAGTATGTTTAAAAACCAAATCCTT
ATGTGCCTGGAAATAAACACATAAAGGATCTGACTTGTAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2266/6881
FIGURE 2082

MRVKDPTKALPEKAKRSKRPTVPHDEDSSDDIAVGLTCQHVSHAISVNHVKRAIAENLWSVCSECLEERRFYDGO
LVLTSDIWLCLKCGFQGCCKNSQSLKHKSSRTEPHCIIINLSTWIIWCYECDEKLSTHCNKKVLAQIVDFL
QKHASKTQTSAFSRIMKLCEEKCEIDEIQGGKCRNLSVRGITNLGNTCFFNAVMQNLAQTYTLTDLMEIKES
TKLKIFPSSDSQLDPLVVELSRPGPLTSALFLFLHSMKETEGPLSPKVLFNQLCQKRVHLHLI

2267/6881
FIGURE 2083

AGTTTGTTGCTCCACCGAGTTCTGAAGAACGCCAGCAGCTCGCTGCTTAAAATTAAACCACAGGGTTCCATGAT
GGGTCAACTTGATGGGAAAGTCATCATCCTGACAGCCGCTGCTCAGGGGATTGGCCAAGCAGCTGCCTTAGCTTT
TGTAAGAGAAGGTGCCAAAGTCATAGCCACAGACATTAATGTGTCCAACTTCAGGAACTGGAAAAGTACCTGGG
TATTCAAACTCGTGTCCTTGATGTCACAAAGAAGAAACAAATTGATCAGTTCGCCAATGAAGTTGAGAGACTTGA
TGTTCTCTTTAATGTTGCTGGTTTTGTCCATCATGGAAGTGTCTGGATTGTGAGGAGAAAAGACTGGGACTTCTC
GATGAATCTCAATGTGCGCAGCACGTACCTGATGATCAAGGCATTCTTCTCTAAAATGCTTGCTCAAAAATCTGG
CAATATTATCACCATGTTTTCTGTGGTTTTCCAGCATCAAAGGAGTTGTGAACAGATGTGTGTACAGCACAAACCA
GGCAGCCGTGATTGGCCTCACAAAATCTGTGGCTGCAGATTCATCCAGCAGGGCATCAGGTGCAACTGTGTGTG
CCCAGGAACGGTTGATACGCCATCTCTACAAGAAAGAATACAAGCCAGAGGAAATCCTGAAGAGGCACGGAATGA
TTTCTGAAGAGACAAAAGATGGGACGATTTGCAACTGCAGAAGAAATAGCCATGCTCTGCGTGTATGTGGCTTC
TGATGAATCTGCTTATGTAACCTGGTAACCCTGTCATCATTGATGGAGGATGGAGCTTGTGATTTTAGGATCTCCA
TGGTGGGAAGGAAGGCAGGCTCTTCTATCCACAGTGAACCTGGCTATGAAGAAAACCTACCAATCATCTCCTTC
CTGCTAATCACATGTTAATGAAACTAAGCCCTTTTTTAACAATGTCACCTGTTTGCAAGAGTCTGATTCTTTAAGTA
TATTAATCTCTTTGTAATCTCTTCTGAAATCATTGTAAAGAAATAAAAATATTGAACTCACAGCAAGAGAATAGT
TTTTAAATAAATCTCAATTTGTAAGC

2268/6881
FIGURE 2084

MGQLDGKVIILTAAAQGIGQAAALAFVREGAKVIATDINVSKLQELEKYLGIQTRVLDVTKKKQIDQFANEVERL
DVL FNVAGFVHHGTVLDCEEKDWD F SMNLNVRSTYLMIKAF L PKMLAQKSGNIITMFSVVS S IKGVVNRCVYSTT
KAAVIGLTKSVAADFIQQGIRCNCVC PGTVDT PSLQERI QARGNPEEARND FLKRQKMGRFATAEEIAMLCVYVA
SDESAYVTGNPVIIDGGWSL

2269/6881
FIGURE 2085

ATGAATGCTATAAAGAGATTTCAGGATGGAAAATTAGTACAGAACAAAGCCTACTGTGGAGAATCAACACCACAG
CATTTCACAGGCCTGCAGCCTTATGTGGTTAGCATGGATGAGGGTTCTTCAGGTTTCATGAGAATAGGCTATGAA
CACTGGGTTTTGGTCTTCTTGATTCTCAGTGCCTGGATACCAGAAAAAGAGAAATATGAGATTGCAGAGCAGCCC
AAGATTGATCAGAAAGCTGTGGACTCACAAATTTTACC AAAATCAAAGTATTCTCAGCTCCAGTGCTACCTG
CGATCTGTGTTTGCTCTGACGAATGGAATTTATCCTCACAAATTGGTGTTTTAA

2270/6881
FIGURE 2086

MNAIKRFQDGKLVQNKAYCGESTPQHFTGLQPYVVSMDEGSSGFMRIGYEHWVLVFLILSAWIPEKEKEYEIAEQP
KIDQKAVDSQILPKIKSIPQLQCYLRSVFALTNGIYPHKLVF

2271/6881
FIGURE 2087

ACAATCCAGCCAATGGCAGAAGACTGCCGAAAATGTAGAAGAGTTAAGTGTGTGTCCTATGCGTTCTACCTCAAT
GCAGATATCAGAGTCCCTTTGAGCTCCCTGAAGAATATACTCACACCAAAGTATTACCTGCACATAGCTGCTCCC
TTCCACCTCGCGGCAGTTCAAAATGAAGCTGTTGTCATTTCTGGAAGGAACTAGCCCAGCAGATCAAGCAGAAA
GTGCGGCAGGAGGTGGAAGAGTGGGTGGCCTCAGGCAACAAACCTGAGCATGATCCTGTACCTGCTGCTATAGTT
CCAGCAAAAAAGATGACTTCTTGCAGGCAAGAAGGCTCCAGCCCAGAAGGTTCTTGCCCAGAAAGCCACAGGCTA
GAGGCAGTGCCTCCTCTGAAAGCTCAGAAGTTTCAAAAGCAACGTGCCCAGAAAGCATGTTGTCCAAAAGCATCT
GGCAAGAAAGCGTTAAGAGGCTATTATAAAAGTAGTAAAGGTTCCAACAACCTTCAAGGACAAGAATGATGTATTT
TCATCACTTGTGACTTCCGGTTTCCTAGACCAGATTTCCGGTCTGACCAGGTGCAGCCCCATCCTAGCAGC
AGATTGCTTGTTCTCAGCATTCCCATCATGGAGAATCTTAGTGTGGTGGGAGGCTTGGGAAATACCGTTTTCAA
GACCAGTGGATTAGTAGCCTGAAAACTCGCCAGCAGTTGCCTGCTTTTGTTCATCTTCCTGTCTCTGGAAGAGCAC
CTGATCCTCACTACCAAAAACTAA

2272/6881
FIGURE 2088

MAEDCRKCRRVKCVSYAFYLNADIRVPLSSLKNILTPKYYLHIAAPFHAAVQNEAVVISGRKLAQQIKQKVRQE
VEEWVASGNKPEHDPVPAAIVPAKKMTSCRQEGSSPEGSCPESHRLEAVPPLKAQKFQKQRAQKACCPKASGKKA
LRGYKSSKGSNNFKDKNDVFSSLVTSGFLDQISGRSDQVQPHPSRLLVLSIPIMENLSVVGGLGNTVFKDQWI
SSLKTRQQLPAFVIFLSLEEHLILTTKN

2273/6881
FIGURE 2089

ACCTGATGGAGATCCAAGTGTGTTGGGCAGGATGAGATGATCGACGTCATTGGGGTGACCAAGGGCAAAGGCTACA
AAGGGGTCACCAGTCGTTGGCACACCAAGAAGCTGCCCTGCAAGACCCACCGAGGCCTGTGCAAGGTGGCCTGTA
TTGGGGCATGGCATCCTGCTCGTGTGGCCTTCTCTGTGGCACGTGCTGGGGAGAAAGGCTACCGTCACCGCACTG
AGATCAACAAGAAGATCTATAAGATTGGCCAGGGCTACCTTATCAAGGATGGCAAGCTGATCAAGAACAATGCCT
CCACTGACTCTGACCTGTCTGACAAGAGCACCAATCCTCTGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATG
ACCTTGTCATGCTGAAAGGCTGTGTGGTGGGAACCAAGAAGCGGGTGCTCACCTCCACGAGTCCTTGCTGGTGC
AGATGAAACGGCAGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGTTTGGCCATGGCTGCT
TCCAGACCATGGAGCAGAAGAAAGCATTTCATGGGACCACTCAAGAAAGACGGAATTGCAAAGGAAGAAGGAGCTT
AATGCCAGGAACAGATTTTCGCAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTGGGAAAAAAAAA

2274/6881
FIGURE 2090

CCGTGATGTCTCACAGAAAGTTTTCTGCTCCCAGACATGGGTCCCTCGGCTTCCTGCCTCAGAAGCGCAGCAGCA
GGCATCGTGGGAAGGTGAAGAGCTTCCCTAAGGATGATCCGTCCAAGCCGGTCCACCTCACAGCCTTCCTGGGAT
ACAAAGCTGGCATGACCCACATCATGAGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCACCTCCAAGT
TTGGCCATGGCTGCTTCCAGACCATGGAGCAGAAGAAAGCATTTCATGGGACCACTCAAGAAAGACGGAATTGCAA
AGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTCGCAGCTGGTGTGGTCTCAATAAAAGTTATTTTCCACTG

2275/6881
FIGURE 2091

AACAGGAAGCGGCCCTCCCGGCTTCGGAGCCGCCGCGCCACTCATCTCTGCCAGCTGCTGCCCTCCCCAGGAGGC
CTCCATGGCTTACCTACCTCCACCAACCCAGCGCATGCCACTTTGAGAGCTTCTGCAAGGCCAGCTGTGCCA
GGACGTGCTGAGCAGCTTCCAGGAGCTGTGTGGGGCCCTGGGGCTGGAACCCGGTGGGGGGCTGCCCAAGTACCA
CAAGATCAAGGACCAGCTCAACTACTGGAGCGCCAAGTCACTGTGGACCAAGCTGGACAAGCGAGCAGGCCAGCC
TGTCTACCAGCAGGGCCGGCCCTGCACCAGCACCAAGTGCCTGGTGGTGGGTGCTGGACCTTGCAGGGCTGCGGGT
CGCTGTGGAGCTGGCGCTGCTGGGGGCCCGAGTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
GCTCCACCTCTGGCCCTTACCATCCAGACCTGCGGGCACTCGGTGCTAAGAAGTTCTACGGGGCTTCTGCAC
CGGCACCTTGGACCACATCAGCATCAGGCAGCTCCAGCTGCTTCTGCTGAAGGTAGCATTGCTGCTGGGGGTGGA
AATTCAGTGGGGTGTCACTTTCACTGGCCTCCAGCCCCCTCCTAGGAAGGGGAGTGGCTGGCGTGGCCAGCTCCA
ACCCAACCCCTGCCAGCTGGCCAACTATGAATTTGACGTCTTATCTCGGCTGCAGGAGGTAAATTCGTCCC
TGAAGGCTTCAAAGTTCGAGAAATGCGAGGCAAACCTGGCCATTGGCATCACAGCCAACCTTTGTGAATGGACGCAC
CGTGGAGGAGACACAGGTGCCGGAGATCAGTGGTGTAGCCAGGATCTACAACCAGAGCTTCTTCCAGAGCCTTCT
CAAAGCCACAGGCATTGATCTGGAGAACATTGTGTACTACAAGGACGACACCCACTACTTTGTGATGACAGCCAA
GAAGCAGTGCCTGCTGCGGCTGGGGGTGCTGCGCCAGGACTGGCCAGACACCAATCGGCTGCTGGGCAGTGCCAA
TGTTGTGCCCCAGGCTCTGCAGCGCTTTACCCGGGCAGCTGCTGACTTTGCCACCCATGGCAAGCTCGGGAACT
AGAGTTTGGCCAGGATGCCCATGGGCAGCCTGATGTCTCTGCCTTTGACTTCACGAGCATGATGCGGGCAGAGAG
TTCTGCTCGTGTGAAGAGAAGCATGGCGCCCGCTGCTGCTGGGACTGGTGGGGGACTGCCTGGTGGAGCCCTT
CTGGCCCCCTGGGCACTGGAGTGGCACGGGGCTTCTTGGCAGCCTTTGATGCAGCCTGGATGGTGAAGCGGTGGGC
AGAGGGCGCTGAGTCCCTAGAGGTGTTGGCTGAGCGTGAGAGCCTGTACCAGCTTCTGTACAGACATCCCCAGA
AAACATGCATCGCAATGTGGCCCAGTATGGGCTGGACCCAGCCACCCGCTACCCCAACCTGAACCTCCGGGCAGT
GACCCCAATCAGGTACGAGACCTGTATGATGTGCTAGCCAAGGAGCCTGTGCAGAGGAACAACGACAAGACAGA
TACAGGGATGCCAGCCACCGGGTCGGCAGGCACCCAGGAGGAGCTGCTACGCTGGTGGCAGGAGCAGACAGCTGG
GTACCCGGGAGTCCACGTCTCCGATTTGTCTTCTCTGGGCTGATGGGCTAGCTCTGTGTGCCCTGGTGTACCG
GCTGCAGCCTGGCCTGCTGGAACCTCAGAGCTGCAGGGCTGGGAGCTCTGGAAGCAACTGCTTGGGCCTAA
GGTGGCAGAGAATGAGCTGGGCATCACACCGGTGGTGTCTGCACAGGCCGTGGTAGCAGGGAGTGACCCACTGGG
CCTCATTGCCACCTCAGCCACTTCCACAGTGCCTTCAAGAGCATGGCCACAGCCAGGCCCTGTACGCCAGGC
CTCCCCAGGGACCTCCAGTGTGTATTATTCCTTAGTAACTTCAGAGGACCCTGCAGCGATCCCGGGCCAAGGA
AAATGCAGAGGATGCTGGTGGCAAGAAGCTGCGCTTGGAGATGGAGGCCGAGACCCCAAGTACTGAGGTGCCACC
TGACCCAGAGCCTGGTGTACCCCTGACACCCCATCCCAACACCAGGAGGCCGGTGTGCTGGGGACCTGTGTGCACT
TTGTGGGGAACACCTCTATGTCTTGAACGCCTCTGTGTCAACGGCCATTTCTTCCACCGGAGCTGCTTCCGCTG
CCATACCTGTGAGGCCACACTGTGGCCAGGTGGCTACGAGCAGCACCCAGGAGATGGACATTTCTACTGCCTCCA
GCACCTGCCCCAGACAGACCACAAAGCGGAAGGCAGCGATAGAGGCCCTGAGAGTCCGGAGCTCCCCACACCAAG
TGAGAATAGCATGCCACCAGGCCTCTCAACTCCACAGCCTCGCAGGAGGGGGCCGGTCTTCCAGATCCAG
CCAGCCACCCGTCGGCAGATCCGCCTCTCCAGCCCGGAGCGCCAGCGGTTGTCTTCCCTTAACCTTACCCCTGA
CCCGGAAATGGAGCCTCCACCCAAGCCTCCCCGAGCTGCTCCGCCTTGGCCCGCCACGCCCTGGAGAGCAGCTT
TGTGGGCTGGGGCCTGCCAGTCCAGAGCCCTCAAGCTCTTGTGGCCATGGAGAAGGAGGAAAAAGAGAGTCCCTT
CTCCAGTGAAGAGGAAGAAGAAGATGTGCCTTTGGACTCAGATGTGGAACAGGCCCTGCAGACCTTTGCCAAGAC
CTCAGGCACCATGAATAACTACCCAACATGGCGTCGGACTCTGCTGCGCCGTGCGAAGGAGGAGGAGATGAAGAG
GTTCTGCAAGGCCAGACCATCCAACGGCGACTAAATGAGATTGAGGCTGCCTTGAGGGAGCTAGAGGCCGAGGG
CGTGAAGCTGGAGCTGGCCTTGGAGCGCCAGAGCAGTTCCCCAGAACAGCAAAAGAACTATGGGTAGGACAGCT
GCTACAGCTCGTTGACAAGAAAAACAGCCTGGTGGCTGAGGAGGCCGAGCTCATGATCACGGTGCAGGAATTGAA
TCTGGAGGAGAAACAGTGGCAGCTGGACCAGGAGCTACGAGGCTACATGAACCGGGAAGAAAACCTAAAGACAGC
TGCTGATCGGCAGGCTGAGGACCAGGTCTGAGGAAGCTGGTGGATTGGTCAACCAGAGAGATGCCCTCATCCG
CTTCCAGGAGGAGCGCAGGCTCAGCGAGCTGGCCTTGGGGACAGGGGCCAGGGCTAGACGAGGGTGGGCCGTCT
GCTTTCGTTCCCAAAAGAACCTCACCACAGCAGTGCCACCCCTGTTTCTGCTGGGCTGCCAGAGAG
GCCTTGCTGTTTACAATTAATGTTTCTGCCAC

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FIGURE 2092

GTTCCGGCGCACGTAATCGCCGAGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGAC
ACTCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAGAGATTCCTTGAGAAGAGAGAACCGAAACTCAAT
GAAAATATTAAAAATGCCATGCTGATTAAAGGGGAAATGCAAATGCAACAGTGACAAAAGTACTTAAAGATGTG
TATGCACTGAAAAAACCATACGGTGTACTATATAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCA
CTGGAATTCTTTTCAAAGAAGTCAGATTGTTCTTTATTCATGTTTGGCTCCCATATAAGAAGCGGCCAAATAAT
CTAGTAATAGGTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTA
AAAGACATTAAAGAACAGTAAATGTCTGAGGGAACAAAACCCATGCTGATATTTGCTGGCGATGATTTTCGATGTA
ACAGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTG
GCTGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTTGAAGCTATAAGTTGCTGTTG
AAGAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCTCATTGGATCTGGTTCTGAGGAGG
ACACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAGAAGAAGAAA
AATATTTCCCATGATACTTTTGGTACAACCTTATGGAAGGATTCATATGCAGAAGCAAGACCTAAGCAAACCTACAA
ACCAGGAAAAATGAAGGGGTTGAAGAAGCGACCTGCAGAAAGGATAACAGAAGACCACGAGAAAAAGTCAAAAAGA
ATTAAAAAAAATTGATGGAACTTAGCCAGCCACTACTGTTTCATTGTGTTCTACTTAAGAGAATTATCAAGCGTC
AATCCATTCAGAGTTTCTTATAAGATCTTATTATATATTTTATAACATGATAATTTTACGATATATTATTATGA
ACAGTAATATACTAGTATTAAGTGTAAGTAAGCCTTTTATTTGAGACATTACACCCTGGTGTGCCATTTTCTCT
TGTGATATCCCCTGCCCTCCACAAATCTTCTTTCTCATTGGGTGGATGGATGGGTGAGGAGGGATCTCCATAAC
CATTGGGATTTTTTTGAATTTCTGGCCTTAGCTAAAGAAAGCCACAGAAAGCCGACCCGAGGAGCTGTGTAAA
CAATCTCAGTATGAATTACCTGGAAAGTTAACCTCCTCTCCAACATGGATCTACATTCTGATTTTTATTTTCTA
CTTTTATTTTGCCTGAAATCCTACTCGTTGACATTTGAGATTTTAAGCTTTGTGGCTGAAAATATATAGATCTCT
GAG

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FIGURE 2093

MDTIDRVVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIELEMGPSLDLVL
RRTHLASDDLYKLSMKMPKALKPKKKKNISHDTFGTTYGRIHMQQDLSKLQTRKMKGLKKRPAERITEDHEKKS
KRIKKN

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FIGURE 2094

ATGGAACAGTACATCTGTAAAAGGACAAGTGATGGCATCTACATCATAAATCTGAAGAGGACCTGGGAGAAGCTT
CTGCTGGCAGCTCATGCCATTGCTGCCATTGAAAACCGTGCAGATGTCAGTGTTATATCCTCCAGGAATATTGGC
CAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTC
ACTAACCAGATCCAGGCAGCTTTCTGGGAGCCACGGCTTCTTGTTGGTTACTGACCCAGGGCTGACCACCAGCCT
CTCAGGAGGCATCTTATGTAACTACCTACCATTGCTCTATTCTCCTTGCTATGTGGACATTGCCATCGCA
TGCAACAACAAGGGAGCTCACTCGGTGGGTTTGATGTGGTGGACACCGGCTCGGGAAGTTCTGCGCATGCGTGGC
ACCATTTCTGCGAACACCGTGGGAGGTCATGCCTGATCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAA
GAAGAGCAGGCTGCTGCTAAAAAAGCTGTGACCAAGAAAGAATTTAGGGTGAATGGACTGCTTCAGCTCCTGAG
TTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGCATGCAGGCCACCGAATGGGTAAAAGCAATCACT
GAATGGGTAGAAGCAACCGCTGAATGGTCTTAA

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FIGURE 2095

MEQYICKRTSDGIYIINLKRTWEKLLLAHAIAAIENPADVSVISSRNIGQRAVLKFAAATGATPIAGRFTPGTF
TNQIQAAFWEPRLLVVTDPRAHQPLTEASYVNLPTIALFSLCYVDIAIACNNKGAHSVGLMWWTTPAREVLRMRG
TISCHEPWEVMPDLYFYRDPEEIEKEEQAAAKKAVTKKEFQGEWTASAPEFTATQPEVADWSEGMQATEWVKAIT
EWVEATAEWS

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FIGURE 2096

ATGGCAAAGGAAGATAACAGAAGACCCTCCAGAGAGTGGAATCCTGAAAATCAAGGAACATTTCTGTATACTCAA
GTGAATGGGAAAGTGGAATATTTCTGAAGTGGAAGGGATTTACAGATGCTGACAATACTTGGGAACCTGAAGAA
AATTTAGATTGTCCAGAATTGATTGAAGCATTTCTTAGCTCTCAGAAAGCTGGCAAACAAAAAGATGACAGCAGT
GGAGAATTGATGTTTCTCATGAAATGGAAAGATTGAGATGAGGCAGACTTGGTGCTGGCAAAGAAGCAAGTATG
AAGTGTCCCTCAAATTGTAATTGCTTTTTATGAAGAGAGACTAATTGGCATTCTTGTCCAGAAGATGAAGCTCAA
TAA

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FIGURE 2097

MAKEDNRRPSREWNPENQGTFLYTQVNGKVEYFLKWKGFADADNTWEPEENLDCPELIEAFLSSQKAGKQKDDSS
GELMFLMKWKDSDEADLVLAKEASMKCPQIVIAFYEEERLTWHSCPEDEAQ

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FIGURE 2098

CTCTTCCGGTTCTAGGCACTTCGGGAGCCGCGGCTTATGGTGCAGACATGGCCAAGTCCAAGAACCACACCACAC
ACAACCAGTCCCGAAAAATGGCACAGAAATGGTATCAAGAAACCCCGATCACAAAGATACGAATCTCTTAAGGGGG
TGGACCCCAAGTTCCTGAGGAACATGCGCTTTGCCAAGAAGCACAAACAAAAGGGCCTAAAGAAGATGCAGGCCA
ACAATGCCAAGGCCATGAGTGCACGTGCCGAGGCTATCAAGGCCCTCGTAAAGCCCAAGGAGGTTAAGCCCAAGA
TCCCAAAGGGAGTCAGCTGCAAGCTCGATCGACATGCCTACGTTGCCCACCCCAAGCTTGGGAAGCGTGCTCTTG
CCCGTATTGCCAAGGGGCTCAGGCTGTGCCGGCCAAAGGCCAAGGCCAAGGCCAAGGATCAAA¹CCAAGGCCCAGG
CTGCAGCTCCAGCTTCAGTTCAGCTCAGGCTCCCAAAGGTACCCAGGCCCCTACAAAGGCTTCAGAGTAGATAT
CTCTGCCAACATGAGGACAGAAGGACTGGTGCGACCCCCACCCCCACCCCTGGGCTATCATCTGCATGGGGCTG
GGGTCCTCCTGTGCTATTTGTACAAATAAACCTGAGGCAGG

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FIGURE 2099

ACAAAAAGCTTTTACGAGGTATCAGCACTTTTCTTTTCATTAGGGGAAGGCGTGAGGAAAGTACCAAACAGCAG
CGGAGTTTTTAACTTTTAAATAGACAGGTCTGAGTGCCTGAACTTGCCTTTTTCATTTTACTTCATCCTCCAAGGAG
TTCAATCACTTGGCGTGACTTCACTACTTTTTAAGCAAAAGAGTGGTGCCAGGCAACATGGGTGACTGGAGCGCC
TTAGGCAAACTCCTTGACAAGGTTCAAGCCTACTCAACTGCTGGAGGGAAGGTGTGGCTGTCAGTACTTTTTATT
TTCCGAATCCTGCTGCTGGGGACAGCGGTTGAGTCAGCCTGGGGAGATGAGCAGTCTGCCTTTCGTTGTAACT
CAGCAACCTGGTTGTGAAAATGTCTGCTATGACAAGTCTTCCCAATCTCTCATGTGCGCTTCTGGGTCCTGCAG
ATCATATTTGTGTCTGTACCCACACTCTTGTACCTGGCTCATGTGTTCTATGTGATGCGAAAGGAAGAGAACTG
AACAAGAAAGAGGAAGAACTCAAGGTTGCCCAAAGTGAATGTTGTAATGTGGACATGCACCTGAAGCAGATTGAG
ATAAAGAAGTTCAAGTACGGTATTGAAGAGCATGGTAAGGTGAAAATGCGAGGGGGGTTGCTGCGAACCTACATC
ATCAGTATCCTCTTCAAGTCTATCTTTGAGGTGGCCTTCTTGCTGATCCAGTGGTACATCTATGGATTACAGCTTG
AGTGCTGTTTACACTTGCAAAAGAGATCCCTGCCACATCAGGTGGACTGTTTCTCTCTCGCCCCACGGAGAAA
ACCATCTTCATCATCTTCATGCTGGTGGTGTCTTGGTGTCCCTGGCCTTGAATATCATTGAACTCTTCTATGTT
TTCTTCAAGGGCGTTAAGGATCGGGTTAAGGGAAAGAGCGACCCCTTACCATGCGACCAGTGGTGCCTGAGCCCT
GCCAAAGACTGTGGGTCTCAAAAATATGCTTATTTCAATGGCTGCTCCTCACCAACCGCTCCCTCTCGCCTATG
TCTCCTCCTGGGTACAAGCTGGTTACTGGCGACAGAAACAATTCTTCTTGCCGCAATTACAACAAGCAAGCAAGT
GAGCAAACTGGGCTAATTACAGTGCAGAACAAATCGAATGGGGCAGGCGGGAAGCACCATCTCTAACTCCCAT
GCACAGCCTTTTGATTTCCCGCATGATAACCAGAATTCTAAAAAACTAGCTGCTGGACATGAATTACAGCCACTA
GCCATTGTGGACCAGCGACCTTCAAGCAGAGCCAGCAGTCGTGCCAGCAGCAGACCTCGGCCTGATGACCTGGAG
ATCTAGATACAGGCTTGAAAGCATCAAGATTCCACTCAATTGTGGAGAAGAAAAAGGTGCTGTAGAAAGTGCAC
CAGGTGTTAATTTTGATCCGGTGGAGGTGGTACTCAACAGCCTTATTCATGAGGCTTAGAAAACACAAAGACATT
AGAATACCTAGGTTCACTGGGGGTGTATGGGGTAGATGGGTGGAGAGGGAGGGGATAAGAGAGGTGCATGTTGGT
ATTTAAAGTAGTGGATTCAAAGAACTTAGATTATAAATAAGAGTTCATTAGGTGATACATAGATAAGGGCTTTT
TCTCCCCGCAACACCCCTAAGAATGGTCTGTGTATGTGAATGAGCGGGTGGTAATTGTGGCTAAATATTTTG
TTTTACCAAGAACTGAAATAATTCTGGCCAGGAATAAATACTTCTGAACATCTTAGGTCTTTTCAACAAGAAA
AAGACAGAGGATTGTCCTTAAGTCCCTGCTAAACATTCCATTGTTAAAATTTGCACCTTGAAGGTAAGCTTTCT
AGGCCTGACCCTCCAGGTGTCAATGGACTTGTGCTACTATATTTTTTTTATTCTTGGTATCAGTTTAAATTCAGA
CAAGGCCCACAGAATAAGATTTTCCATGCATTTGCAAATACGTATATTCTTTTCCATCCACTTGCACAATATCA
TTACCATCACTTTTTTCATCATTCCTCAGCTACTACTCACATTCAATTAATGGTTTCTGTAAACATTTTTAAGACA
GTTGGGATGTCACTTAACATTTTTTTTTTTTGGAGCTAAAGTCAGGGAATCAAGCCATGCTTAATATTTAACAATC
ACTTATATGTGTGTCGAAGAGTTTGTGTTTGTGTCATGTATTGGTACAAGCAGATACAGTATAAACTCACAAAC
ACAGATTTGAAAATAATGCACATATGGTGTTCAAATTTGAACCTTTCTCATGGATTTTTGTGGTGTGGGCAATA
TGGTGTTTACATTATATAATTCTGCTGTGGCAAGTAAAGCACACTTTTTTTTCTCCTAAAATGTTTTTCCCTG
TGTATCCTATTATGGATACTGGTTTTGTAAATTATGATTCTTTATTTTCTCTCCTTTTTTTAGGATATAGCAGTA
ATGCTATTACTGAAATGAATTTCTTTTTCTGAAATGTAATCATTGATGCTTGAATGATAGAATTTTAGTACTGT
AAACAGGCTTTAGTCATTAATGTGAGAGACTTAGAAAAATGCTTAGAGTGGACTATTAAATGTGCCTAAATGAA
TTTTGCAGTAACTGGTATTCTTGGGTTTTCTACTTAAATACACAGTAATTCAGAACTTGTATTCTATTATGAGTT
TAGCAGTCTTTTGGAGTGACCAGCAACTTTGATGTTTGCACATAAGATTTTATTGGAATGCAAGAGAGGTTGAAA
GAGGATTCAGTAGTACACATACTAATTTATTTGAACATATGTTGAAGACATCTACCAGTTTCTCCAAATGC
CTTTTTTAAAACTCATCACAGAAGATTGGTGAATATGCTGAGTATGACACTTTTCTTCTTGCATGCATGTCAGCT
ACATAAACAGTTTTGTACAATGAAAATTACTAATTTGTTGACATTCCATGTTAAACTACGGTCATGTTTCAGCTT
CATTGCATGTAATGTAGACCTAGTCCATCAGATCATGTGTTCTGGAGAGTGTCTTTATTCAATAAAGTTTTAAT
TTAGTATAAACAT

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FIGURE 2100

MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLLLGTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPISHV
RFWVLQIIFVSVPTLLYLAHVIFYVMRKEEKLNKKEEELKVAQTDGVNNDMHLKQIEIKKFKYGIEEHGKVKMRGG
LLRTYIISILFKSIFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFIIFMLVVSLVSLALNI
IELFYVFFKGVKDRVKGKSDPYHATSGALSPAKDCGSQKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSCRN
YNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHELQPLAIVDQRPSSRASSRASSRP
RPDDLEI

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FIGURE 2101

GCTGTGCGTCCGGAAGTGTCTCGCAGATAGTAAATAATCTCGGAAAGGCGAGAAAGAAGCTGTCTCCATCTTGTC
TGATACCGCTGCTCTTGTGACGTTGTGGAGATGGGGAGCGTCCTGGGGCTGTGCTCCATGGCGAGCTGGATACCA
TGTTTGTGTGGAAGTGCCCCGIGTTTGCTATGCCGATGCTGTCTAGTGGAACAACCTCCACTGTAAGTAGATTG
ATCTATGCACCTTTCTTGCTTGTGGAGTATGTGTAGCTTGTGTAATGTTGATACCAGGAATGGAAGAACAACTG
AATAAGATTCCCTGGATTTTGTGAGAATGAGAAAGGTGTTGTCCCTTGTAACATTTTGGTTGGCTATAAAGCTGTA
TATCGTTTGTGCTTTGGTTTGGCTATGTTCTATCTTCTCTCTCTTACTAATGATCAAAGTGAAGAGTAGCAGT
GATCCTAGAGCTGCAGTGCACAATGGATTTTGGTTCCTTTAAATTTGCTGCAGCAATTGCAATTATTATTGGGGCA
TTCTTCATTCCAGAAGGAACCTTTACAACCTGTGTGGTTTTATGTAGGCATGGCAGGTGCCTTTTGTTCATCCTC
ATACAACCTAGTCTTACTTATTGATTTTGCACATTTCATGGAATGAATCGTGGGTGAAAAATGGAAGAAGGGAAC
TCGAGATGTTGGTATGCAGCCTTGTTATCAGCTACAGCTCTGAATTATCTGCTGTCTTTAGTTGCTATCGTCCTG
TTCTTTGTCTACTACACTCATCCAGCCAGTTGTTTCAGAAAACAAGGCGTTCATCAGTGTCAACATGCTCCTCTGC
GTTGGTGCTTCTGTAATGTCCTATACTGCCAAAAATCCAAGAATCACAACCAAGATCTGGTTTGTACAGTCTTCA
GTAATTACAGTCTACACAATGTATTTGACATGGTCAGCTATGACCAATGAACCAGAAAACAAATTGCAACCCAAGT
CTACTAAGCATAATTGGCTACAATACAACAAGCACTGTCCCAAAGGAAGGGCAGTCAGTCCAGTGGTGGCATGCT
CAAGGAATTATAGGACTAATTCTCTTTTGTGTGTGTATTTTATTCCAGCATCCGTACTTCAAACAATAGTCAG
GTTAATAAACTGACTCTAACAAGTGATGAATCTACATTAATAGAAGATGGTGGAGCTAGAAGTGATGGATCACTG
GAGGATGGGGACGATGTTACCGAGCTGTAGATAATGAAAGGGATGGTGTCACTTACAGTTATTCTTCTTTTAC
TTCATGCTTTTCCCTGGCTTCACCTTTATATCATGATGACCCTTACCAACTGGTACAGGTATGAACCTCTCGTGAG
ATGAAAAGTCAGTGGACAGCTGTCTGGGTGAAAATCTCTTCCAGTTGGATTGGCATCGTGCTGTATGTTTGGACA
CTCGTGGCACCCTTGTCTTACAAATCGTGATTTTGAAGTGAGACTTCTAGCATGAAAGTCCCACTTTGAT
TATTGCTTATTTGAAAACAGTATTCCCAACTTTTGTAAAGTTGTGTATGTTTTGCTTCCCATGTAACCTCTCCA
GTGTTCTGGCATGAATTAGATTTTACTGCTTGTCAATTTTGTATTTTCTTACCAAGTGCATTGATATGTGAAGTA
GAATGAATTGCAGAGGAAAGTTTTATGAATATGGTGATGAGTTAGTAAAAGTGGCCATTATTGGGCTTATTCTCT
GCTCTATAGTTGTGAAATGAAGAGTAAAACAATTTGTTTGACTATTTTAAAATTATATTAGACCTTAAGCTGT
TTTAGCAAGCATTAAGCAAATGTATGGCTGCCTTTTGAATATTTGATGTGTGCTGGCAGGATACTGCAAAG
AACATGGTTTATTTTAAAATTTATAACAAGTCACTTAAATGCCAGTTGTCTGAAAAATCTTATAAGGTTTTACC
CTTGATACGGAATTTACACAGGTAGGGAGTGTTTAGTGGACAATAGTGTAGGTTATGGATGGAGGTGTCGGTACT
AAATTGAATAACGAGTAAATAATCTTACTTGGGTAGAGATGGCCTTTGCCAACAAAGTGAAGTGTTTTGGTTGTT
TTAAACTCATGAAGTATGGGTTCACTGGAAATGTTTGGAACTCTGAAGGATTTAGACAAGGTTTTGAAAAGGATA
ATCATGGGTTAGAAGGAAGTGTGTGAAAGTCACTTTGAAAGTTAGTTTGGGCCAGCACGGTAGCTCACCTTGT
AATCCCAGCACTTTGGGAGGCTGAGGTGGGTAGATTACTTGAAGCCAGGAATTCAAGACCAGCCTGGGCAACATG
GTGAAACCTGTTTCTATAAAAAATAATCTGGGCTTTGTAGCATATGCCTGTGGTCCCAGCTACTGAGGAGGCTG
AGGTGGGAGGATTGCTTGAGCCCAGGAGGCAGAGGTTGCAGTGAGCCAAGGTCACGTCACTGCCTAGCCTGG
GCAACAGAGTAAGACAAAAAATATATATATATTGAAAATCAAAGGAGGCAAAATTTTGACAGGGAAGGAAGTAA
CTGCAAAACACTAGGCTTTAGTAGGTACTTATATAAAATCTAGTCCAGTTCTCTCATTTAAAAAATGAAGACAC
TGAAATACAGACTTAAATAGCTCAGATAGCTAATTAGGAAATTTCAAGTTGGCCAATAATAGCATTCTCTGAC
ATTTAAAAATAATTTCTATTCAAATACATGCATAATTGATTTTACACCTCATTACTGGTGGATAATTTATGTGA
TGTGGATTGCTGGTGTCCAGCATGACCATAAACAGGTGAGAAGAATGATGGAATGTTTTAGAATAAACTCCTGC
TTATAGTATACTACACAGTTCAAAGATGTTTAAAATGCTTTTGTATTTACTGCCATGTAATTGAAATATATAGA
TTATTGTAACCTTTCAACCTGAAAATCAAGCAGTATGAGAGTTAGTTATTTGTATGTGTCACTAGTGTCTAATG
AAGCTTTTAAAATCTACAATTTCTTCTTTAAAAATATTTATTAATGTGAATGGAATATAACAATTCAGCTTAATT
CCCCAACCTTATTCTGTGTGTAGACATTGTATTCCACAATTTTGAATGGCTGTGTTTTACCTCTAAATAAATGAA
TTCAGAG

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FIGURE 2102

MGSVLGLCSMASWIPCLCGSAPCLLCRCCPSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQLNKIPGFCENE
KGVVPCNILVGKYKAVYRLCFGLAMFYLLLSLLMIKVKSSSDPRAAVHNGFWFFKFAAAIAIIIGAFFIPEGTFTT
VWFYVGMAGAFCFILIQLVLLIDFAHSWNESWVEKMEEGNSRCWYAALLSATALNYLLSLVAIVLFFVYYTHPAS
CSENKAFISVNMLLCVGASVMSILPKIQESQPRSGLLQSSVITVYTMyltWSAMTNEPETNCNPSLLSIIGYNTT
STVPKEGQSVQWWHAQGIIGLILFLLCVFYSSIRTSNNSQVNKLTLTSDESTLIEDGGARSDGSLEDGDDVHRAV
DNERDGVITYSYFFHFMLFLASLYIMMTLTNWYRYEPSREMKSQWTAVVVKISSWIGIVLYVWTLVAPLVLTNR
DFD

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FIGURE 2103

GGGGACCCCTCTCCTGACGCTGCGCTCTCTGCGAGGCAACCTTTTACGTCCATCGCTTGTTCATCTTAGGATCCCCA
TGTTATTTTAGCCAGATTGGCTAGTTCTGGGGAGGCAGCATGGTGGGACGATTCTGTCCCGAGTCCCCGCCAGG
CTTTGTTTCGGGTCGCCGCTACCAGCGCGGTCTCCCTAGATCCTCCATCCGGGGAACCTCGCCCCGGGTGCGGGTA
CCCGGGGCCGCGCAGCGCTGCCTCGAGGGTGTATGGATGCACCGCGCCGGCGAGAGAGACCGGGGGCTGGGCCTG
GGAGACCCTAGCGGGGGCGGGGGCGAAGAAGAGATTTATTCCAGTGAAACAACAACCTGGAACCTCAAGTAACCTC
TCCCAGAGTACTTCCAACCTCTGGGTTGGCCCCAAATCCAACCTAATGCCACCACCAAGGCGGCTGGTGGTGCCCTG
CAGTCAACAGCCAGTCTCTTCGTGGTCTCACTCTCTCTCTGTCATCTCTACTCTTAAGAGACTCAGGCCAAGAAA
CGTCTTCTAAATTTCCCATCTTCTAAACCAATCCAATGGCGTCTGGAAGTCCAATGTGGCAAGGAAAAACAG
GTCTTCATCGAATCTACTAATTCACACCTTTTATTGACACAGAAAATGTTGAGAATCCCAAAATTTGATTGATTT
GAAGAACATGTGAGAGGTTTGACTAGATGATGGATGCCAATATTAAATCTGCTGGAGTTTCATGTACAAGATGAA
GGAGAGGCAACATCCAAAATAGTTAAGACATGATTTCCCTGAATGTGGCTTGAGAAAATATGGACACTTAATACTA
CCTTGAAAATAAGAATAGAAAATAAAGGATGGGATTGTGGAATGGAGATTTCAGTTTTTCATTTGGTTCATTAATTCT
ATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATGATTTCTATTTATATGTACATGAGAAGGAACTTCCAGGT
GTTACTGTAATTCCTCAACGTATTGTTTCGACAGCACTAATTTAATGCCGATATACTCTAGATGAAGTTTTACAT
TGTTGAGCTATTGCTGTCTCTTGGGAACTGAACTCACTTTCTCCTGAGGCTTTGGATTGTGACATTGCATTGTA
CCTTTTATGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCCCAGATCCAAGCATCCTGAGC
AACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCTATCACCTGTTTCCATTCAACAAGAGCACTACA
TTCATTTAGCTAAACGGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAATGCTTTTTATTATTA
TTATTTTTTAGACAGTCTCACTTTGTGCGCCAGGCCGGAGTGCAGTGGTGGATCTCAGATCAGTGTACCATTG
CCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACCATGCCCG
GCTAATTTTTGTAAATTTTAGTAGAGACAGGGTTTACCATGTTGCCAGGCTGGTTTCGAACTCCTGACCTCAGG
TGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCAGCCATCAAATGCTT
TTTATTTCTGCATATGTTGAATACTTTTTACAATTTAAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAATCTT
GAAATTAAGAAGGCAAAAATGTAAAGGAGTCAAACTATAAATCAAGTATTTGGGAAGTGAAGACTGGAAGCTAA
TTTGCAATTAATTCACAACTTTTATACTCTTCTGTATATACATTTTTTTCTTTAAAAAACAACCTATGGATCA
GAATAGCCACATTTAGAACACTTTTTGTTATCAGTCAATATTTTAGATAGTTAGAACCTGGTCCTAAGCCTAAA
AGTGGGCTTGATTCTGCAGTAAATCTTTTACAACCTGCCTCGACACACATAAACCTTTTTAAAAATAGACACTCCC
CGAAGTCTTTTGTTTCGCATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGCCACAGTAGTCTTG
ATGACCAAAGTCCTTTTTTCCATCTTTAGAAAACCTACATGGGAACAAACAGATCGAACAGTTTTGAAGCTACTG
TGTGTGTAATGAACACTCTTGCTTTATTCAGAATGCTGTACATCTATTTTGGATTGTATATTGTGTTTGTGTA
TTTACGCTTTGATTCATAGTAACTTCTTATGGAATTGATTGTCATTGAACACAACTGTAAATAAAAAGAAA

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FIGURE 2104

CAGAAGCGGCTAGTGGCGGCTGCCTGCGTCCCCAACCCCTCCGCGCAGCGCTCGCGACACGCGTGCCAGGAGTG
GGAGCGAGCGGCGGGGCCAGCTGCGTTCTGAGCCTGGGCGCAGCTGCCATCTGCTCTGGGAAGCACCAGGGTGTC
CCCGCCGCCCTCAGCTCGAAGTCAGCCACCATGGAGGCGCAGGCACAAGGTTTGTGGAGACTGAACCGTTGCAA
GGAACAGACGAAGATGCAGTAGCCAGTGCTGACTTCTCTAGCATGCTCTCTGAGGAGGAAAAGGAAGAGTTAAAA
GCAGAGTTAGTTCAGCTAGAAGACGAAATTACAACACTACGACAAGTTTTGTGTCAGCGAAAAGAAAGGCATCTAGTT
GAGATAAAACAAAACTCGGCATGAACCTGATGAATGAATTAACAGAACTTCAGCAAAAGCTGGCATGACATG
CAGACTACCACTGCCTACAAGAAAACACATGAAACCCTGAGTCACGCAGGGCAAAAGGCAACTGCAGCTTTTCAGC
AACGTTGGAACGGCCATCAGCAAGAAGTTCGGAGACATGAGTTACTCCATTTCGCCATTCCATAAGTATGCCTGCT
ATGAGGAATTCTCCTACTTTCAAATCATTGAGGAGAGGGTTGAGACAACCTGTCACAAGCCTCAAGACGAAAGTA
GGCGGTACGAACCCTAATGGAGGCAGTTTTGAGGAGGTCTCAGCTCCACGGCCCATGCCAGTGCCAGAGCTTG
GCAGGAGGCTCCCGGCGGACCAAGGAGGAGGAGCTGCAGTGCTTAAGTCCAGCCAGCGTGCAGCTGCATCCAGAAA
CCGGCCACTACCCAGCCCATCTCTGCCTGTGCTTATCCAGATAAGAAGACCAAAATCCCGCTGGGAAAAACCCAG
GCCTTGACATTGTTATTCAAATGGCCCCCTCCAGAAAGTTTTAATGATTTCCATTTGTATTTGTGTTGATGATGGAC
CACTTGACCATCACATTTTCAGTATTCATAGATGACTGTCACATTTTAAAATGTTCCCACTTGAGCAGGTACACAA
CTGGTCATAATTCCTGTCTGTGTAATTCGATGTATATTTTTCCAAACATGTAGCTATTGTTTGCTTTGATTTTTG
CTTGGCCTCCTTTATGATGTGCATGTCCTTGAAGGCTGAATGAACAGTCCCTTTTCAGTTCAGCAGATCAACAGGA
TGGAGCTCTTCATGACTGCTCCAGCAATAGGATGATTTACTATAAATTTTCATCCAACCTACTTGTGATCTCTCTC
ACCTACATCAATTATGTATGTTAATTCAGCAATTAAAAGAATTGATTTT

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FIGURE 2105

MEAAQGLLETEPLQGTDEDASADFSSMLSEEEKEELKAELVQLEDEITTLRQVLSAKERHLVEIKQLGMNL
MNEKQNFSSKSWHDMQTTAYKKTHETLSHAGQKATAAFSNVGTAISKKFGDMSYSIRHSISMPAMRNSPTFKSF
EERVETTVTSLKTKVGGTNPNGGSFEEVLSSTAHASQAQSLAGGSRRITKEEELQC

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FIGURE 2106

GGAGTTGGAAGGGGAGGAGGAAGAGGGGGAGCAGGAAGAGGGGGCAGAAGGAAGAAGAAGAGGGGGAGGAGAAAGA
GATAGAAGAGTAAGAGGAGGGGGAAGAAAGACAAGGGGAAGGGGAGGAGGAGGAGGACGGGGAGGAGCTTCGCCG
CGGCCTGCTCCGCCCAGCCGGGGTTCGGTGGCCGCATGGCTTCGGTCTCCTCTGCGACCTTCTCGGGCCACGGGGC
TCGGTCCCTACTGCAGTTCTTGC GGCTGGTAGGGCAGCTCAAGAGAGTCCCACGAACTGGCTGGGTATACAGAAA
TGTCAGAGGCCGGAGAGCGTTTCAGATCACATGTACCGGATGGCAGTTATGGCTATGGTGATCAAAGATGACCG
TCTTAACAAAGACCGATGTGTACGCCTAGCCCTGGTTCATGATATGGCAGAATGCATCGTTGGGGACATAGCACC
AGCAGATAACATCCCCAAGAAGAAAAACATAGGCGAGAAGAGGAAGCTATGAAGCAGATAACCCAGCTCCTACC
AGAGGACCTCAGAAAGGAGCTCTATGAACTTTGGGAAGAGTACGAGACCCAATCTAGTGCAGAAGCCAAATTTGT
GAAGCAGCTAGACCAATGTGAAATGATTCTTCAAGCATCTGAATATGAAGACCTTGAACACAAACCTGGGAGACT
GCAAGACTTCTATGATTCCACAGCAGGAAAATTCAATCACCCCTGAGATAGTCCAGCTTGTTTTCTGAACTTGAGGC
AGAAAGAAGCACTAACATAGCTGCAGCTGCCAGTGAGCCACACTCCTGAGACACTCTCTAAATTGCTGCACTCCT
GTAACAAACATTATTTTTCCATTTTCATTGTATTGTGTTTTGCCATTGTTGGTCTGTTGATTTCCCTAGATGTGAG
TCTGTTTGTTTTCAATTGTCTGAACTTCAGCAAGAAATGTGATACAACCTGGGCACTAAAAGAAGCCACAGAACA
GGAAGCGGTCATGAAAGTGCCATGGATGAACACTGGAGGTGGCAGTGCCTGTTTATGAACTAAATAAATAAATAT
TAAACACCTAAATATTAGAATATTTATTGGAGATTTAAATCATCTTATTCTGACTTAATTACCGATATCCCCG
AAGGCTAGGTTTCATTGAATAATAGAAAATTTTCATTATGATTGCTTTTAAGAACAGATTCTTCAGCTGATTTAGTG
ATAAGAATCCAGAAAAGAAAATGTACTAGTGATGTATTCTCTCCCCAGATGAAATTGCTGCCTTATTCAGATTTA
CTCTCTTGAGCCAGATTTTGAATTTCACTGCAGACTGCTTCAGACTTCTAATCATAGGCTTGTAACCTACTAAT
AGGCTCTGCCCCCTCTTCCCAATACTTTTGTGATTTAGAGATATAAACCGGGGCATATAAAAATGCAACTTGAT
TCCTTTGTATATTTTTCCCTGTCTGACTTATAAATCTTGAGACCTTTATTGTAAAAGCATGTATCATCAGGTGAG
AAATATAAATAGGAACTGGGGTCATTGAGCCTCAGGTAGGGAATATATCAACCCGATTTCTTCCTCTCTTTTCCC
TTTTATAGGATAAATAATCC

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FIGURE 2107

GACGGCAGCCGCCCCGGCCGACAGCCCCGAGACGACAGCCCGGCGCGTCCCGGTCCCCACCTCCGACCACCGCCA
GCGCTCCAGGCCCCGCGCTCCCCGCTCGCCGCCACCGCGCCCTCCGCTCCGCCCCGAGTGCCAACCATGACCGC
CGCCAGTATGGGCCCCGTCCGCGTCGCCTTCGTGGTCCTCCTCGCCCTCTGCAGCCGGCCGGCCGTGCGGCCAGAA
CTGCAGCGGGCCGTGCCGGTGCCCGGACGAGCCGGCGCCGCGCTGCCCGGGCGGGCGTGAGCCTCGTGCTGGACGG
CTGCGGCTGCTGCCGCGTCTGCGCCAAGCAGCTGGGCGAGCTGTGCACCGAGCGCGACCCATGCGACCCGCACAA
GGGCTATTCTGTCACTTCGGCTCCCCGGCCAACCGCAAGATCGGCGTGTGCACCGCCAAAGATGGTGCTCCCTG
CATCTTCGGTGGTACGGTGTACCGCAGCGGAGAGTCCCTTCAGAGCAGCTGCAAGTACCAGTGACGTGCCTGGA
CGGGGCGGTGGGCTGCATGCCCCGTGTGCAGCATGGACGTTCTGTCTGCCAGCCCTGACTGCCCCCTTCCCGAGGAG
GGTCAAGCTGCCCGGGAAATGCTGCGAGGAGTGGGTGTGTGACGAGCCCAAGGACCAAAACCGTGGTTGGGCCTGC
CCTCGCGGCTTACCGACTGGAAGACACGTTTGGCCAGACCCAATATGATTAGAGCCAATGCCTGGTCCAGAC
CACAGAGTGGAGCGCCTGTTCCAAGACCTGTGGGATGGGCATCTCCACCCGGGTTACCAATGACAACGCCTCCTG
CAGGCTAGAGAAGCAGAGCCGCTGTGCATGGTCAGGCCCTTGCGAAGCTGACCTGGAAGAGAACATTAAGAAGGG
CAAAAAGTGATCCGTACTCCCAAAATCTCCAAGCCTATCAAGTTTGAGCTTTCTGGCTGCACCAGCATGAAGAC
ATACCGAGCTAAATCTGTGGAGTATGTACCGACGGCCGATGTGTGACCCCCACAGAACCACCACCCTGCCGGT
GGAGTTCAAGTGCCCTGACGGCGAGGTCATGAAGAAGAACATGATGTTTCATCAAGACCTGTGCCTGCCATTACAA
CTGTCCCGGAGACAATGACATCTTTGAATCGCTGTACTACAGGAAGATGTACGGAGACATGGCATGAAGCCAGAG
AGTGAGAGACATTAATCATTAGACTGGAACCTGAACTGATTACATCTCATTTCCTGTAATAATGATTTTCAGT
AGCACAAGTTATTTAAATCTGTTTTTCTAACTGGGGGAAAAGATTCCCACCCAATTCAAAACATTGTGCCATGTC
AAACAAATAGTCTATCAACCCAGACACTGGTTTGAAGAATGTTAAGACTTGACAGTGGAACACATTAGTACAC
AGCACCAGAAATGTATATTAAGGTGTGGCTTTAGGAGCAGTGGGAGGGTACCAGCAGAAAGGTTAGTATCATCAGA
TAGCATCTTATACGAGTAATATGCCTGCTATTTGAAGTGTAATTGAGAAGGAAAATTTTAGCGTGCTCACTGACC
TGCCTGTAGCCCCAGTGACAGCTAGGATGTGCATTCTCCAGCCATCAAGAGACTGAGTCAAGTTGTTTCCTTAAGT
CAGAACAGCAGACTCAGCTCTGACATTCTGATTGGAATGACACTGTTTCAGGAATCGGAATCCTGTGATTAGACT
GGACAGCTTGTGGCAAGTGAATTTGCCTGTAAACAAGCCAGATTTTTTAAATTTATATTGTAAATATTGTGTGTG
TGTGTGTGTGTATATATATATATATGTACAGTTATCTAAGTTAATTTAAAGTTGTTTGTGCCTTTTTATTTTT
GTTTTTAATGCTTTGATATTTCAATGTTAGCCTCAATTTCTGAACACCATAGGTAGAATGTAAAGCTTGTCTGAT
CGTTCAAAGCATGAAATGGATACTTATATGGAATTTCTGCTCAGATAGAATGACAGTCCGTCAAAACAGATTGTT
TGCAAAGGGGAGGCATCAGTGTCTTGGCAGGCTGATTTCTAGGTAGGAAATGTGGTAGCCTCACTTTTAATGAA
CAAATGGCCTTTATTAAAACTGAGTGACTCTATATAGCTGATCAGTTTTTTTACCTGGAAGCATTGTTTCTAC
TTTGATATGACTGTTTTTCGGACAGTTTATTTGTTGAGAGTGTGACCAAAAGTTACATGTTTGCACCTTTCTAGT
TGAAAATAAAGTGTATATTTTTTCTATAAA

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FIGURE 2108

CACTGCTGACATAACTCCCTTGGTCTTCAATTTAATAGTTGTTAAGTTTTTGCCACATTGCATATGCCTTTTCAT
TTATAATTTATTTACCCTGCTTGAAGTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGTATTCTGTTTGCATC
TCCCTGTCACTGTGACACACCTAGATGTGTGTTACTTCAATTTAAATTTCTCAAATTTAATTTTGATTGCTTCAG
CAGGGAAAATATTCTCAATAATGTAAAATAATTAAGGTCTATACATGGGTGTATTTTTCTGGTTCACAACAGCA
CAAAGTGTCTTTCAATTTTTTTGTTGGTTTTCTTTTAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAG
TTTATTTGATACTCTTTCTGTGTATATATTAAGCTTTTGCTGTAGATTGCCTAGTAAAATTACTAAGGATAGGTT
GTTTTTACATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAAACATAATTT
GGAAGAAGAGTATGAACAACCAATACCAATACCTATTGCGTTTTGGATTCTTAAGACCCAGTTTTGTTATTCCACT
AAACTAGTTATCTTAACCATAICATCTGGTTTTGTGGGCCATTATTTACCTTCCCTTATGTCTTATAGAATAATG
GTTAATATTTTTAGGTCAAAATTACTTTTTGGAAAGTAACTTTCCCACTAATACTGTTTTTGAGCACCTGACAAA
ATTTAGTGTTTACCTTGCCTGCCATTTTGTGTCTATCTTCAATTAAGCAATTGGAGGTTTGCCAGTTATCTC
ACTTCCCTTTTTAAATCAATGTTGTTTTAATGCACTAATCTGAATCTGTAAAGAGGATTATCTTAGTTTATACT
TTGTATTTTATAATGTCTTGTATAGCAGCTCGGTACTGAAGGCGGTGTTTAACTTGGCAAGCTCTGAGACTTCA
AATGGGAACAAATAGTAAGTAGCTAAGTAAACCACATCTTTGCAACCAAAATAAAGATGAGTTAAAAGGTATCTG
GTTAGGCTATTTTCATGAGGACTATGCTCTGGTGGGACCACAGGTCACCTGATACTTAGTGCTGTGCTGCCTGAA
ACCTCAGCATGGAGACATCACCACATGCACTGTGGCCATTGAGCATCTTTCTGGAGCACCAGTTCACTCCAGGTT
TTTATTTTAGGGTGTCTGATGATTTTACCTACTTTGTGCACTGGTAGAAGTTGCTTTGCATATCAGAAAACTCC
ATTTTTTCCACAAAAGGGATTACAGAAAACCTTTTTGTGAGTGAGTGATTGGAACCTTAGAGACTCCTGTTGCCA
GAATCAGACTGCCCTAGAACAGAATGGACAATGCAGGGAGGAGAATTCACACAAACAGCACCTGTTCTGAGGCCT
GTGCCAGCCCACCAGGCCTGCTCAAATGTGGTCTTTACTTCAAGTGCACAGAGGCACATGAGGTTTCTGGTGATA
AACCAGCGTCTTACCCTGTTTTTAAAGTCCCATCCCCATGGCTTTCACAATCAGTTCCGTTTTTTTTGCTGTACT
TGATAAAATGTTTATTCTCATAACAGGTCAAGTACATTTACTTCTATTACAGTGAGTACCCAATAACAACAAAAG
CGCTTACAAATTTGGGGGGCGTGATTTTAGTACCTTTATTTGAAGTGTAATCATTTTAAATTATTATTATTTTAA
CTGGGGCAGTTATCAGTGGTTTTAAACAGGAACCTTTAGTGGCTTCAATTTGTTTAAAGAAACATATTAAGTTTGAGG
GAAAAATTTCCCATGAAATATTTGGAACGTAAGAGTAGTATTGATTAGAGAAAATTAAATAAGAAACATAGTATG
GTAGCCAAATTTTTTAAAAATCTTGAACCTTTCTGTAGGTGAGTTTTAGAACTGCTGTGAAAAGTGAAGGTTGC
CCTGTGGAGATTAAAATTAGAGTTGTTTTTATAACTGACAGCATGGTGAATCCATTTGAGTCAAAGTGAAGAATT
TCCTCATCAAGTGACTATACATTTGTTTTTGTGTGCTCAAAAGAAATACTCAAACACAGACTGATATTAACCAGC
CAGGTAAATTGAACGACAATGTGGCATTAGGTATTTGGCTGTTTATTGGTCGTTAAATACTATGGTTTTGCAATA
TGATTGATGGTAAAAGAGTGATGTATATTGATACTAGAGTAGCTTGTTTTTTTAGTAGGTGTGGGACCATCTCT
TTTACAAGTGCAACTCAGTCTAGGACAGCCATGGATGCAGTGTCTGGAGTTGGACCCTCTGAGCCCCTGGCTGC
CCCAGTAGCATCTGCATTGGTGACCAAGGACACTGCACTTTGAAGAGGTGCGCACTGGGTTATTTAGTGTCTTCA
CTGCTTTTGTAAAAATTTGTAATAATTTGTACACAAAAAGTTGTGTTTTTGAATATCAATTGTTTAGACACACCT
ACAATGATAAATAAGTGCCTTTAAAGGCCCTCTTTCCATGAAATACATCTGTGGTTTAGCAAGGAAAAGTACAAA
ATAGTTTATGTAGTTGGTATAATTTTTATTTGTGTCTTCATGTAGAAAAATGAATGTCATAATAAAATATAAAA
CTTACGTAAAG

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FIGURE 2109

MDNAGRRIHTNSTCSEACASPPGLLKCGLYFKCTEAHEVSGDKPASRCKVPSPWLSQSVPFLLYLIKCLFSY
RSSTFTSIHSEYPITTKALTNLGGVILVPLFEV

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FIGURE 2110

GTGACTGCTTAGAAAACTGCACAGCATCTGATGAAATTAGCGAATAAGAACATCAACCATGTCTTACACTCCAGG
AGTTGGTGGTGACCCCGCCAGTTGGCCAGAGGATCTCTTCTAACATCCAGAAGATCACACAGTGTTCTGTGGA
AATACAAAGAACTCTGAATCAACTTGGAACACCTCAAGATTCACCTGAATTGAGGCAACAGTTGCAACAGAAGCA
GCAGTATACTAACCAGCTTGCCAAAGAAACAGATAAGTACATTAAAGAGTTTGGATCTCTGCCCACCACCCCCAG
TGAACAGCGTCAAAGGAAAAATACAGAAGGATCGCTTAGTGGCAGAGTTCACAACATCACTGACAACTTCCAGAA
GGTCCAGAGGCAGGCTGCTGAGCGAGAGAAAGAGTTTGTGCTCGAGTAAGAGCCAGTTCCAGAGTGTCTGGCAG
TTTTCTGAGGACAGCTCAAAAGAAAGGAATCTTGATCCTGGGAAAGCCAACTCAACCTCAAGTGCAGGTGCA
GGATGAAGAAATTACAGAGGATGACCTCCGCTTATTTCATGAGAGAGAATCTTCTATCAGGCAACTTGAAGCTGA
TATTATGGATATTAATGAAATATTTAAAGATTTGGGAATGATGATTCATGAACAAGGAGATGTAATAGATAGCAT
AGAAGCCAATGTGGAAAATGCAGAGGTGCACGTTTCAGCAAGCAAATCAGCAGCTGTCAAGGGCAGCAGATTATCA
GCGCAAATCCAGAAAAACCTGTGCATCATCATTCTTATCCTTGTCATTGGAGTTGCGATTATCAGTCTCATCAT
ATGGGGATTGAACCACTGAAGTTATAAAGGAGCACACTGTGCGACTACATTGTCTAAATTATGTAGGAAGATTCC
TGTAATCATGTTTTTTTAAATTATTATTTTAAAGCTATTGTATAAAGGATGGTTCCCATACTTTGTTATTTTTATT
GGGGGGTTGGGGTGGTTCCCTTTGGATTAAATCTGATATTTTCTAATACTGAAAGATTTTCTAAATGTCACTGCT
GACATAACTCCCTTGGTCTTCAATTTAATAGTTGTAAAGTTTTTGCCACATTGCATATGCCTTTCATTTATAAT
TTATTTACCCTGCTTGACTTAGTTTTGGGAATTCGTAAATTTAAAGGTGTGTGTATTCTGTTGCATCTCCCTGT
CACTGTGACACACCTAGATGTGTGTTACTTCAATTAAAATTCTCAAATTTAATTTTGATTGCTTCAGCAGGGAA
AATATTCTCAATAATGTAAAATAATTAAGGTCTATACATGGGTGTATTTTTCTGGTTCACAACAGCACAAAGTG
TCTTTCATTTTTTTGTTGGTTTTCTTTTAAAGATCTTTTTTACCCTGAAGTCGGTGAATACTTTTCTAGTTTATTT
GATACTCTTCTGTGTATATTAAGCTTTTGCTGTAGATTGCCTAGTAAAATTACTAAGGATAGGTTGTTTTTA
CATATGGTCTATTTAAGTCTGATGTTTACGGGGGAAAGTGTAGTTACTAAAAATGTTTAACATAATTTGGAAGAA
GAGTATGAACA

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FIGURE 2111

CTTTCCCTGCCGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGCTTCACCCGTAACCCA
CCGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGACGTTAATACTGCTTTACAAGAGGTTCTGAAGA
CTGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAAGCCTTAGACAAGCGCCAAGCCCATC
TTTGTGTGCTTGCATCCAACGTGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAAA
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTTTGTAAAATTGACAGAGAGGGGA
AACCCCGTAAAGTGGTTGGTTGCAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA
TTGAAGAGTATTTCAAATGCAAGAAATTGAAGAAATAAATCTTTGGCTCACAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 2112

MAEEGIAAGGVMDVNTALQEVLTALIHDLARGIREAAKALDKRQAHLCVLASNCDEPMYVKLVEALCAEHQIN
LIKVDDNKKLGEWVGLCKIDREGKPRKVVGCSVVVKDYGKESQAKDVIEEYFKCKK

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FIGURE 2113

GGCCGCCTCGCACCCGGAACAACAAAGCAAGGAAGACGGAGTCCGAGCCTCGGGGGCTCCTAGCAACGGGCGCGG
GCGGGAGTTCCATGGAGACTGGGGAGCGCGCCCGTCTCATCCTCATCCTTGTCCTCCAGCTTCTCCTTCGCATCC
GACGCAACCGGCAGCAGCGCTGCCGCCGCGTCCCTCAGCCACCGCTCCCTCTTCCCACGGATGTGATCTTCGTGGT
GGAAAGCTAAATTTTAAACCACCCCAATGGATGCAGACAGTGATGTTGCATTGGACATTCTAATTACAAATGTA
GTCTGTGTTTTTAGAACAAGATGTCATTTAACTTAAGGAAGATTGCTTTGGAAGGAGCAAATGTAATTTATAAA
CGTGATGTTGGAGTAATATTAATGAAGCTTAGAAAACCTAGAATTACAGCTACAATTTGGTCCTCAGGAAAAATT
ATTTGCACTGGAGCAACAAGTGAAGAAGAAGCTAAATTTGGTGCCAGACGCTTAGCCCGTAGTCTGCAGAACTA
GGTTTTCAGGTAATATTTACAGATTTTAAGGTGTTAACGTTCTGGCAGTGTGTAACATGCCATTTGAAATCCGT
TTGCCAGAATTCACAAAGAACAATAGACCTCATGCCAGTTACGAACCTGAACTTCATCCTGCTGTGTGCTATCGG
ATAAAATCTCTAAGAGCTACATTACAGATTTTTTCAACAGGAAGTATCACAGTAACAGGGCCCAATGTAAAGGCT
GTTGCTACTGCTGTGGAACAGATTTACCCATTTGTGTTTGAAAGCAGGAAAGAAATTTTATAATTCACCACTTAA
TTGGTTAGAATCTCTAACTGAGCACCTTTTAAACCTGCTGCACATTGGACTCAAAGGAAAACTGGACCAACAAT
AATTGAGGAAATAGACTCTTTTATTCAATTCACGGCTACAGTGTAAGCTCCAGTCCCTTTGGATTTTATTCCAAAC
CTTGCTGTAATATAAAAGGAAGTTTACAAGACATGATATTGCTGCTTTTACAAAAGGACATTCTATTTATTTTCG
CAGTAATTCTCATGTCCCATAAGCAGAGCTGTGCAGTGTGCACTACCTTAGATTGTTTTATTGTCGTCATTGT
TATTTTTTCCATTTTGAGCTAATGTGTTTTATTTGTGAATAGTCTTTTACATTTTTGTATGCTGAATATGGGCA
CCAAAGAACCTGTAAAGTTATCTTTTTCAATTGAATGTGCACAAATAAAAGTTTGGA

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FIGURE 2114

GCCGGGGAGGGACGCAGGCAGGCGGGCGGGCAGCGGGAGGCGGCAGCCCCGGTGCGGTCCCCGCGGCTCTCGGCGGA
GCCCCGCGCCCCGCGCGCCATGGCCCCGAAGACCCCGGCACAGCATATATAGCAGTGACGAGGATGATGAGGACTT
TGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACTTGGGGAAAAACAAGGTGGAC
CCGGGAAGAGGATGAAAACTGAAGAAGCTGGTGGAAACAGAATGGAACAGATGACTGGAAAGTTATTGCCAATTA
TCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACCCTGAGCTCATCAAGGGTCC
TTGGACCAAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGAAACGTTGGTCTGTTATTGC
CAAGCACTTAAAGGGGAGAATTGGAAAAACAATGTAGGGAGAGGTGGCATAACCACTTGAATCCAGAAGTTAAGAA
AACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGGGGAACAGATGGGCAGAAAT
CGCAAAGCTACTGCCTGGACGAACCTGATAATGCTATCAAGAACCCTGGAATTCTACAATGCGTCGGAAGGTGCA
ACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAAGCTTCCAGAAGAACAGTCA
TTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCAACTCCCTGCCACTGGCCAGCCCACTGTTAACAACGACTA
TTCCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCATGTTCCATACCCTGTAGCGTTACATGTAAATAT
AGTCAATGTCCCTCAGCCAGCTGCCGCAGCCATTGAGAGACACTATAATGATGAAGACCCTGAGAAGGAAAAGCG
AATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGCAGGTGCTACCAACACAGAA
CCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGACCTCATGGAGACAGTGCACC
TGTTTCCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCTCCCTACCTGAAGAAAGCGC
CTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGAACCTCTTAGAATTTGCAGA
AACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAAACCTCAGACTTGGAAATGCCTTCTTT
AACTTCCACCCCCCTCATTTGGTCACAAATTGACTGTTACAACACCATTTTCATAGAGACCAGACTGTGAAAACCTCA
AAAGGAAAATACTGTTTTTGAACCCAGCTATCAAAAGGTCAATCTTAGAAAGCTCTCCAAGAACTCCTACACC
ATTCAAACATGCACCTGCAGCTCAAGAAATTAATAACGGTCCCCTGAAGATGCTACCTCAGACACCCTCTCATCT
AGTAGAAGATCTGCAGGATGTGATCAAAACAGGAATCTGATGAATCTGGAATTGTTGCTGAGTTTCAAGAAAATGG
ACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAACCTGATAAATCAGGAAACTTCTTCTGCTCACA
CCACTGGGAAGGGGACAGTCTGAATACCCAACCTGTTACGCAGACCTCGCCTGTGGCAGATGCACCGAATATTCT
TACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAGCATTACAGTACCTAAAAA
CAGGTCCCCTGGCGAGCCCCTTGACAGCCTTGATAGCAGTACCTGGGAACCTGCATCCTGTGGAAAGATGGAGGAGCA
GATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGCTGGTCTATGAGACATTTT
CAGAAAAGCATTATGGTTTTTCAAGACACTTCAAGTTGACTTGGGATATATCATTCCCTCAACATGAAACTTTTCAT
GAATGGGAGAAGAACCCTATTTTTGTTGTGGTACAACAGTTGAGAGCAGCACCAAGTGCATTTAGTTGAATGAAGT
CTTCTTGGATTTACCCAACTAAAAGGATTTTTTAAAAATAAATAACAGTCTTACCTAAATTATTAGGTAATGAAT
TGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAACATAAAATGATTTATCTGTATTTTAAAGGA
TCCAACAGATCAGTATTTTTCTGTGATGGGTTTTTTGAAATTTGACACATTAAAAGGTACTCCAGTATTTTAC
TTTTCTCGATCACTAAACATATGCATATATTTTTTAAAAATCAGTAAAAGCATTACTCTAAGTGTAGACTTAATAC
CATGTGACATTTAATCCAGATTGTAAATGCTCATTTATGGTTAATGACATTGAAGGTACATTTATTGTACCAAAC
CATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAGTTTTATAAAAAATTATATTTT
TATTCAGTAATTTAATTTTGTAAATGCCAAATGAAAAACGTTTTTTGCTGCTATGGTCTTAGCCTGTAGACATGC
TGCTAGTATCAGAGGGGACAGTAGAGCTTGGACAGAAAGAAAAGAACTTGGTGTAGGTAATTGACTATGCACTA
GTATTTTCACTTTTTAATTTTATATATATATACATTTTTTTTTCTTCTGCAATACATTTGAAAACCTGTTTTGGG
AGACTCTGCATTTTTTATTGTGGTTTTTTTGTATTGTTGGTTTTATACAAGCATGCGTTGCACTTCTTTTTTGGG
AGATGTGTGTTGTTGATGTTCTATGTTTTGTTTTGAGTGTAGCCTGACTGTTTTATAATTTGGGAGTTCTGCATT
TGATCCGCATCCCCTGTGGTTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGATCCTGTGTTTGCAACTGGGGA
GACAGAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGATGGCCAGCACTGAACTTTTGA
GATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT

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FIGURE 2115

MARRPRHSIYSSDEDDFEMCDHDYDGLLPKSGKRHLGKTRWTTREDEKLKKLVEQNGTDDWKVIANYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRTDNAIKNHWNSTMRRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNIVNVPQAAAAIQRHYNDEDPEKEKRIKELEL
LLMSTENELKGQQLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSCLGEHHSTPSLPADPGSLPEESASPARCM
IVHQGTILDNVKNLLEFAETLQFIDSFLNTSSNHENSLEMPSLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGFLKMLPQTPSHLVEDLQDVIKQESDESGIVAEFQENGPPLLKK
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSFVADAPNILTSSVLMAPASEDEDNVLKAF TVPKNRS LASP
LQPCSSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

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FIGURE 2116

CTCCCTGTCGCCGCGGAGGGGCGGGGGCAGGACGCGCAACTCCGGCCGGAGCTGTCCGGGGTTCGTGAGCCGGCCC
CGCCTTGGTGGCGGCGCCCCCTCGCGGTCCAGAGGCAGACGCATCGGGTGGGCTCGGGTCTCCAGCCCGGCCGGG
AGGAGGGACCGGGTCTGCGGAGCGGGGACTCGGGGCCTCGGCGGGGCGCGCACACGCAGGCGGGGCGGCCCGGGG
TGCGGGGCTCTGCGCGGCTGACCAGGCTCCAGAGCGTCAGCGCCGCCCATGCGCCGAGCCGCTCCAGCCAGACC
CCGGGGCGGCCGAGGACGCGGGCGGCCCAAGCTGTGGAGACGCCGGGCTGGAAGGCCCGGAGGACGCCGGCCCCC
AGCCCGGAAGTTATGAGATCCGACACTATGGACCAGCCAAGTGGGTCAGCACGTCCGTGGAGTCTATGGACTGGG
ATTCAGCCATCCAGACGGGCTTTACGAACTGAACAGCTACATTCAAGGCAAAAACGAGAAAGAGATGAAAATAA
AGATGACAGCTCCAGTGACAAGCTACGTGGAGCCTGGTTCAGGTCCTTTTAGTGAGTCTACCATTACCATTTCCC
TGTATATTCCCTCTGAACAGCAATTTGATCCACCCAGGCCTTTAGAGTCAGATGTCTTCATTGAAGATAGAGCCG
AAATGACTGTGTTTGTACGGTCTTTTCGATGGATTTTCTAGTGCCCCAAAAGAATCAAGAACAACCTTTTGACATTAG
CAAGCATTTTAAGGGAAGATGGAAAAGTTTTCGATGAGAAGGTTTACTACACTGCAGGCTACAACAGTCCTGTCA
AATTGCTTAATAGAAATAATGAAGTGTGGTTGATTCAAAAAATGAACCCACCAAAGAAAACGAATGAGAAAAAT
GAAAGGAAGTTCTGCTGTCAGAGGCAAAACATCTGTTTATCATAGACATCAACATGACCTATAAGTAAAGTGCCT
GTCTAGTGTCTTCTATTGAGAGTACTACTATTAATTAAGCTTATTTCCAATGTGCCTTTTTAATGCTTGAAGTTT
TATCTACATACACAGGTAACAGAGGACAGTAGTCTGTAAACATATAAATCGGTCATAACTATCGTGGTCTTTATT
TCTGTGAGGATC

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FIGURE 2117

MAEFLQDPGAAEDAAAQAVETPGWKAPEDAGPQPGSYEIRHYGPAKWVSTSVESMDWDSAIQTGF TKLNSYIQG
KNEKEMKIKMTAPVTSYVEPGSGPFSESTITISLYIPSEQQFDPPRPLESDVFIEDRAEMTVFVRSFDGFSSAQK
NQEQLLTLASILREDGKVFDEKVYYTAGYNSPVKLLNRNNEVWLIQKNEPTKENE

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FIGURE 2118

AGAACCACCACAACAAATAACCAGCCTGGCAGTCAATTCTTCTATGGACTGGTGGTTTTTGGCAATTGCAATGG
CATTGCTATGGTTGACTACCTCCAGAAAGCAGTGCTGCTCAACCTGGGCACTATTGAATTATATGGCTCTAATGA
TCCTTATCGGAGAGAACCCCGATCTCCTCGTAAATCTCGACAGCCTTCAGGAGCCGGTCTGTGTGATATTAGTGA
AGGGACTGTTGTTCCAGAGGATCGCTGCAAATCTCCAACCTCTGCAAAGATGTCAAGGAAGTTAAGCTTACCTAC
TGACCTAAAGCCTGATTTAGATGTAAAGGATAACTCCTTTAGCCGATCACGGAGTTCAAGTGTAACAAGCATTGA
CAAAGAATCCCGAGAAGCGATCTCCGCTCTTCATTTCTGTGAAACGTTTACTCGAAAGACGGACTCGTCCCCTTC
CCCTTGTCTATGGGTTGGAACAACGCTAGGAACAGTGCTTGTTCATTGCACTGAACCTTCCCCCAGGGGGAGAGCA
AAGACTTCTTCAGCCAGTAATTGTGTCTCCAAGTGGTACTATATTGAGGTTAAAAGGTGCAATCTTGAGAATGGC
ATTTCTGGATACCACAGGCTGCTTAATACCACCTGCGTATGAACCTTGGAGAGAGCACAATGTTCTGAAGAAAA
AGAGGAAAAGGAGAAATTGAAAAACGGCGGCCTGTCTCAGTATCCCCCTCCTCTTCTCAGGAAATTAGTGAAAA
CCAGTATGCAGTGATATGTTCTGAAAAGCAAGCAAAAGTAATCTCACTGCCAACCCAGAAGTGTGCTTATAAGCA
AAATATTACAGAGACCTCGTTTGTGCTTCGTGGAGATATTGTAGCATTGAGTAACAGTATCTGCCTTGCCTGTTT
CTGTGCCAATGGACATATAATGACTTTTAGTTTGCCAAGTTTAAAGACCTCTGTTGGATGTGTATTACTTGGCCCT
TACCAATATGCGGATAGCCAGAACGTTCTGCTTTACCAACAATGGACAAGCATTATACCTTGTTCACCTACAGA
AATCCAGAGACTTACTTATAGTCAAGAGACCTGTGAAAATCTTCAGGAAAATGTTGGGTGAACCTCTTCACTCCTGT
AGAAACACCTGAAGCACCAACAGGGGATTCTTTAAAGGCTTATTTGGAGGTGGTGCACAATCTCTTGACAGAGA
AGAATATTTGGAGAAATCGTCCTCAGGAAAGGCTTCAAGGAGCCTTGACAGCATATTCTGGCCCTGGTGGCAT
TGAAGGCGTAAAAGGGGCAGCATCTGGAGTTGTTGGTGAATTAGCACGAGCCAGGCTGGCACTAGATGAAAGAGG
GCAGAAACTTGGCGATCTGGAAGAAAGAACTGCGGCCATGTTATCAAGTGCAGAGTCATTTTCTAAACATGCTCA
TGAGATTATGTTGAAATACAAAGATAAGAAGTGGTACCAGTTCTGACAACCAGAATCCAATAAGTCCAACCTTCAG
CCAGAAGGAAAAAAGTTTTCCATTTTTATTACATTCTTTAGGAAAGTTAACGTTAAAGGGATGTTGCTCACTGAA
TACTGTTCTTTCTTAGCACAGTCATGCACTGTTTTACCTCAGTCATGTGGCTTTAACTGAGGAGTGTTACACGC
ACTCGAAATGGAGTATATGGTGTGTGCCAGTTATGAGTTGACCATTGGAATTAAACAGGTCACACGTGACAGA
TGAAGAAACCAAGGGGGCTGCTGAGGAGACCTGGTGCAGGGACTAATCCTGGATCATTCTGTATTAACTTTCA
TATGCCAAAAGGGTTTGTGCCGTTTTATCTGCCATCAGTGTTTGACCTGTTAGGGCAGAGGCAATAAGTCAGAA
GTCTTGAAGTTGAAATAGTTATATGTGTGTCATTGGACTGGATTATAAACAGCTGTCTTGGACTTTCCCTCTCTT
AACACTGACTGGTCATCAGTATCATTAGTGAAAAAGAAACAAATTGTTTGTATCATCTCTTTAGACAGATAAGC
TGAATGGTGGGCTTTAAATAATAAAAACATACATAGTTGACTTGTGTATGAGCTACTCTTGGATTCTTGTTAT
TATAGACTTGATTTAGTTCATATTTTGTCAAAAGCAAAACAAGAAGATACATCACTTTTCATTGAAAAGAAAAG
TGTAAGCATGACTGAATTGCTCATCATTCTGGGAGTTTCCATGTAGTGGCTATGCAGTGTGGAAAGTGAGAAAA
ACCTCCATTGTGGTGAGGAGAATACTTCAATGTCCCTTGTCTTCTCATTAATTCAGCTAAAGGTGGATTTG
ACCAAAATAATGCTGGTTAAATTTGTAGAAATGTTGAAATTGGCTGTGTTTTAAATTTTGCTTGAATTTTTATAA
AATGTTTAACCAATGTACCTTTCATTCTTTAATTAAAATTGCTT

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FIGURE 2119

TTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAACTTAGGGGCCACGTGAGCCACCGC
CACGGCCGCATAGGCAAGCACCGGAAGCACCCCGGCGGCCGCGGTAATGCTGGTGGTCTGCATCACCACCGGATC
AACTTCGACAAATACCACCCAGGCTACTTTGGGAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAGC
TTCTGCCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAAC
AAGACTGGGGCTGCTCCCATCATTGATGTGGTGCGATCTGGCTACTACAAAGTTCTGGGAAAGGGAAAGCTCCCC
AAGCAGGCTGTCACCGTGCAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAGAGTGTTGGGGGGGCC
TGTGTCCTGGTGGCTTGAAGCCGCATGGAGGGAGTTTCATTAAATGCTAACTACTTAAAAAAAAAAAAAGAAGAA
GAAGAAGAAGAAAAA

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FIGURE 2120

MPSRLRKTRKLRGHVSHRHGRIGKHRKHPPGGRGNAGGLHHRINFDKYHPGYFGKVGMMKHYHLKRNQSFCTVNL
DKLWTLVSEQTRVNAAKNKTGAAP IIDVVRSGYYKVLGKGKLPQAVTVQAKFFSRRAEEKIKSVGGACVLVA

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FIGURE 2121

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCGGTGGCTCTGGCCCCGCCGGGCGGTTGGCCCAGCCCGCCGGCCC
CTGAGCTCCGGTAGCCCCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAG
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAG
CGGGAGCTGCGGGGAGACTGAGCACTTGCTGCACGGTAAGGGTCGGGCCCCGGGGGAGAGGCGTCAGAGCACATTCT
TGACTCTTCGTTTGACTTTTCCACTGCCACACTACCCGAGTTTGAAACTCTTTACTCACTTGACGCCGTTTTTA
TTTTGGATCAGAGGTCAGGACATCATTACGTGCTGTGATCCCATCCTCTCCTGTGGGCTCTCTTGTGCTCCTTTG
CCACGGCGCTCTGCCGCCCTTTTACATGCTTATTAGTTGTGGACTCGGGCAAGAGCTCATTAGCTCAGCAAGGATA
AATAAGGCACTGTCCCTGTGATGGGCTCCACAGCGGTGTTTCTCAAAGTGTGGTGTGGAGACCCATTTGCAGTAG
TATCAGGGCAGTGCTTGTTAATAGCAGACTTAGGACTCAGAATCTCAGACCTATACGTGGGTAAAGGTACTAAAT
TGGGAAATTCAAGTATGGCCTAAGTATAGAATAGGTGGGAGATGATGTATAGAAACATGAAGCCAGAAAAATAGT
TAAGAACCTTGCAAGACAAAGAATTTGGATTTATTTTTTATAGACCATGGAAAGTTAGCAAATGTTTTTAAGCAG
AGAATTCACGTCTTTGTAAAGAAAAGTTAATGGTGGCATGCGCTGAGGATAAATTTGGAGTATTCTCCAGAAACGC
TGGTGGCTGACAGGCCAGGGAGGAGGCAGTTGAAACAATCCAAAGAAGAAATGGTGATAGGCATAGTTCTGACTC
ACAAAACATTTTGAGAAACAAGTTAGGATTTAGTGGCTTATGCCCTGAGAAGGATGAGGGAGAGAGTTAGTTCTA
AGAAAAGTCTTAGGTTTCTGGCTTCAGCACGAGTGGTACTGTTAATTAAGATGAAAGTATAAAAGTTGGACCGAA
TTTTTTAAAAAGATGAGTTTGCATTGAATGCCATATTAAGTTAAAAATACCTGTGAAAAGGAATTCCAATAAAG
ATATCTGTACTAGTCTAGGAGAAAAAATTACTGACATAGGAGAAAAATTGAGCCCAAATAATCATATGAGAGCTC
TCGAGATATACAGTACGTGGTAAATTAAACCTTAGAAGTAGATGAGAACTCAGGGAAAATGTGTTAAGATAGA
AACAAGTCTAACAAGGCCAGAAATACACAGTATTTGAGGAGCAGGCAGAGAAGAAGGCTATAAAAGGTCAAGAAA
AAAAACAGCCAGAGCTTTGTGACCTGAAGTAGATAAAATAAATGAAGCTGTAGAAGCCAATAGAAAATTTCAAGAA
GTAAGAGATCCTTGGCCAGGCGTGGTGGCTCACGCCTCTAATTCCAGCACTTTGAGAGGCTCAGGTGGGCCGATC
ACTTGAGCCCAGGAGTTCGAGACCAGCCTGGGTAACATGGCAAAACCTGTCTCTACAAACAATGCAAAATTAGC
TGGGCATGGTGGTGCCTGTGGTCCCAGCTACTTGAGAGGCTGAGGTGGGAGAATCGCTTGAACCCGGGAGG
TGGAGGTTGCAGTGAGCCAAGATGGTGCCACTGCATTCCAGCCTGGGTGACAGCGCAAGACCCTGCCTC

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FIGURE 2122

ATGCGGTCCCGGGTTCTGTGGGGCGCTGCCCCGGTGGCTCTGGCCCCGCCGGGCCGTTGGCCCAGCCCGCCGGCCC
CTGAGCTCCGGTAGCCCGCCGCTGGAGGAGCTGTTACCCGGGGCGGGCCCTTGCGGACCTTCCTCGAGCGCCAG
GCGGGGTCTGAAGCCCATTTGAAGGTCAGGAGGCCCGAGTTGCTGGCGGTGATCAAACCTGCTGAACGAGAAGGAG
CGGGAGCTGCGGGAGACTGAGCACTTGCTGCACGATGAGAATGAAGATTTAAGGAACTTGACAGAGAATGAAATC
ACTTTGTGTCAAAAAGAAATAACTCAGCTGAAGCATCAGATTATCTTACTTTTGGTTCCCTCAGAAGAAACAGAT
GAAAATGATTTGATCCTGGAAGTAACTGCAGGAGTTGGAGGTCAGGAGGCAATGTTGTTTACATCAGAGATATTT
GATATGTATCAGCAATATGCTGCATTTAAAAGATGGCATTGTTGAAACCCTGGAATATTTTCCAAGTGAAGTAGGT
GGCCTTAGACATGCATCTGCCAGCATTGGGGGTTGAGAAGCCTATAGGCACATGAAATTTGAAGGAGGTGTTTAC
AGAGTACAAAGAGTGCCAAAGACAGAAAAGCAAGGCCGCGTCCATACTAGCACCATGACTGTAGCAATATTACCC
CAGCCTACTGAGATTAATCTGGTGATTAATCCGAAAGATTTGAGAATTGACACTAAGCGAGCCAGTGAGCTGGG
GGGCAGCATGTAAATACCGGACAGTGCTGTCCGGATAGTTTCACTTCCAACAGGTGTTGTTTCTGAATGTCAA
CAAGAGAGATCTCAGCTGAAAAATAAAGAGCTGGCTATGACAAAGTTACGTGCAAACTGTACAGCATGCATCTA
GAAGAAGAAATAAATAAAAGACAGAATGCTAGAAAAATTCAGATTGGAAGTAAAGGAAGATCAGAGAAAAATAAGA
ACATATAATTTTCCACAGAACCGGGTCACAGATCACAGAATAACAAGACGCTGCATGATCTTGAACTTTTATG
CAAGGAGATTATCTACTGGATGAAGTTGTACAGTCATTGAAGGAATACGCCGATTATGAATCTTTAGTAGAAATT
ATTTCCTCAAAAAGTTTAA

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FIGURE 2123A

CAAAAATCAGTCTGATCTCGGGAAACCTGGAGAAATTTATTTTCTGTACTCTAATGTTCTTTTCATTTTGGTGACC
ATCAAGGTGCTGGGAGAGGAATTAGATGGCTGTAATTCAAAGTTAATGGAATTAGATGCAGCAGTACAGAAATTC
TTGGAACAGAAATGGCCAACTGGGTAAGCCACTGGCCAAGAAGATAGGAAAACTGACTGAACTTCACCAGCAGACC
ATTAGACAAGCTGAGAATCGGCTCTCCAAGCTCAATCAGGCAGCATCACATTTAGAAGAATACAATGAAATGCTT
GAATTAATTTTGAAGTGGATTGAAAAAGCTAAAGTCTTGGCTCATGGAACCTATTGCAATGGAATTCCTGCAAGCCAG
CTTCGGGAACAATATATTTTGCATCAGACCCTGCTAGAGAATCCAAAGAAATTGACAGTGAGCTGGAAGCAATG
ACTGAGAAATTACAGTACCTCACTAGCGTGTACTGTACAGAAAAAATGTCTCAGCAAGTGGCAGAACTGGGACGG
GAGACTGAGGAGTTGCGACAGATGATCAAAATTCGTTTGCAGAACCTCCAAGATGCAGCTAAGGATATGAAAAA
TTTGAAGCAGAGTTGAAAAAGTTACAAGCTGCCTTGGAGCAAGCCAGGCAACACTGACTTCTCCAGAAGTTGGA
CGTCTCAGTCTCAAGGAGCAGCTCTCTCATCGGCAGCATTGTGTGTCTGAGATGGAGTCACTGAAGCCGAAGGTG
CAAGCAGTGCAGCTCTGCCAGAGTGCCCTCCGGATCCCCGAGGATGTGGTTGCCAGCTTACCTCTCTGTCTATGCT
GCTCTGCGGCTGCAGGAAGAGGCCAGCCGGCTGCAGCACACCGCCATCCAGCAGTGTAAACATCATGCAGGAAGCT
GTGGTACAATATGAACAATATGAGCAAGAAATGAAACATCTCCAGCAACTGATAGAAGGAGCTCACAGAGAGATT
GAGGATAAACCTGTTGCCACCAGTAACATACAGGAGCTGCAGGCTCAGATTTCTCGGCATGAGGAGCTGGCGCAG
AAAATTAAGGGCTACCAGGAGCAGATCGCTTCTTTGAATTCCAAGTGCAAGATGCTGACGATGAAAGCCAAGCAC
GCCACCATGCTGCTGACGGTGACCGAGGTGAGGGGCTGGCGGAAGGGACAGAGGACCTGGATGGGGAGCTCCTC
CCCACGCCCTTCGGCCACCCCTCTGTGGTCTATGACTGCAGGTGCTGTCACACTTTGCTGTACCCGGTCACT
GAGGAGTCTGGGGAGGAGGGAACCAACAGTGAGATTTCTCTCCACCTGCCTGTCGCTCCCTTCACCTGTGGCT
AATACAGATGCTTCTGTTAACCAGGACATTGCATATTACCAAGCCTTGTCTGCTGAGAGGTTGCAGACAGATGCT
GCAAAAATTCACCCCAGCACATCCGCATCCCAGGAGTTCTATGAACCGGGATTGGAGCCATCCGCTACTGCCAAA
CTGGGTGATTTGCAGCGTTCTTGGGAAACCTTAAAGAATGTGATCAGTGAGAAGCAGCGCACACTCTATGAAGCT
TTGGAACGCCAGCAGAAGTACCAGGACTCCCTCCAGTCCATCTCTACGAAGATGGAGGCCATTGAGCTGAAACTC
AGTGAGAGCCCAGAGCCTGGCAGGAGTCCAGAAAGCCAGATGGCTGAACATCAGGCATTGATGGATGAGATTCTC
ATGCTCCAGGATGAAATCAATGAGCTCCAGTCTCTCTCGCAGAGGAGCTGGTATCCGAGTCTTGTGAGGCCGAC
CCTGCGGAGCAGCTGGCCTTGCACTCCAGCTCACTGTCTTAGCCGAGCGAATGTCCACCATCAGGATGAAAGCC
TCGGGGAAACGGCAGCTTTTGGAGGAGAAGTTGAATGATCAGCTGGAGGAACAAAGGCAGGAACAGGCCCTGCAG
AGGTATCGCTGTGAAGCCGATGAGCTGGACAGCTGGCTCTTGAGTACCAAGGCCACTCTGGACACTGCGCTGAGT
CCACCCAAGGAGCCCATGGACATGGAGGCCAGCTTATGGACTGCCAGAATATGCTGGTGGAAATAGAGCAGAAG
GTGGTGGCTTTATCAGAACTGTCAGTCCACAATGAGAACCTGCTGCTGGAGGGCAAAGCTCACACCAAGGACGAG
GCCGAGCAGCTGGCTGGAAAGCTGAGAAGGCTCAAGGGGAGCCTGCTGGAGCTGCAGAGAGCCCTGCATGATAAG
CAGCTCAACATGCAGGGAACAGCACAGGAGAAGGAGGAGAGCGATGTTGACCTAACAGCCACGCAGAGCCCCGGC
GTCCAGGAATGGCTGGCCCAAGCTCGCACCATGACCCAGCAGCGGCAGAGCAGTCTCCAGCAACAAAAAGAG
TTAGAACAGGAATTAGCCGAGCAGAAGAGTCTCCTTCGCTCAGTAGCCAGTCGTGGAGAGGAGATTCTAATTCAA
CATTGCGCGGCAGAGACCTCTGGTGATGCTGGCGAAAAACCTGATGTGTTATCCCAGGAGTTGGGGATGGAAGGG
GAGAAATCATCCGCTGAAGACCAGATGAGAATGAAATGGGAAAGCCTACATCAAGAATTTAGTACCAAGCAGAAA
CTACTACAGAATGTTCTGGAACAGGAACAAGAGCAAGTGCTTTATAGCAGGCCAAATCGACTCTTGTCTGGTGTG
CCACTGTACAAAGGGGACGTGCCAACCCAAGATAAATCTGCAGTTACATCTTTGCTGGATGGACTGAACCAAGCC
TTGAGGAGGTTTCATCCCAGAGTGGAGGGGCAAAGAGGCAGAGTATACACTTGGAGCAGAAGTTGTATGATGGA
GTCTCAGCCACCTCTACTTGGTTGGATGACGTTGAAGAACGTTTATTTGTTGCCACAGCACTTTTACCAGAAGAA
ACAGAGACTTGTCTCTTCAACCAAGAGATTCTTGCCAAAGACATTAAGGAAATGTCTGAAGAAATGGATAAGAAC
AAAAACTTGTTTTCCCAAGCTTTTCCAGAGAATGGTGATAATCGAGATGTTATTGAAGATACTTTGGGTTGTCTT
TTGGCAGGTTATCCTTGCTAGACTCAGTAGTGAATCAACGATGTCATCAGATGAAAGAAAGACTTCAGCAAATA
CTAAATTTCCAGAATGATCTGAAAGTGCTGTTTACATCACTGGCTGACAACAAATACATCATTCTGCAAAAACCTG
GCAAATGTGTTTGAACAGCCCGTAGCAGAACAAATAGAGGCAATACAACAGGCTGAAGATGGACTCAAAGAATTT
GATGCAGGAATCATTGAATTAAAGAGGCGTGGTGACAAGCTACAGGTCGAGCAGCCGTCCATGCAAGAACTCTCC
AAGCTCCAGGACATGTATGATGAGCTGATGATGATCATTGGCTCCCGGAGGAGTGGTCTGAATCAGAACCTTACA
CTCAAGAGTCAGTATGAGAGGGCCCTACAAGATCTGGCTGACCTGCTAGAAACTGGTCAGGAGAAGATGGCAGGA
GACCAGAAAATCATCGTGTCTTCCAAAGAGGAAATCCAGCAACTACTTGACAAACATAAGGAATACTTTCAGGGC

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FIGURE 2123B

CTGGAATCTCATATGATCTTGACTGAAACACTCTTCAGAAAGATAATCAGCTTTGCAGTCCAAAAGGAAACCCAG
TTCCATACAGAGCTGATGGCTCAGGCTTCTGCTGTACTGAAACGGGCTCACAAGAGGGGTGTGGAGCTGGAGTAC
ATTCTAGAGACGTGGTCCCCTCTGGATGAGGACCAGCAGGAGCTCAGCAGACAGCTGGAGGTGGTGGAAAGCAGC
ATCCCAAGCGTGGGTCTGGTGGAGGAGAACGAGGACAGGCTTATTGACCGCATAACACTCTACCAGCATTAAAA
TCTAGCCTTAATGAATACCAGCCCAAATTATATCAAGTATTAGATGATGGGAAACGACTTCTGATATCCATCAGC
TGCTCAGATCTAGAAAGCCAACTAAATCAACTTGGAGAGTGTGGCTAAGTAACACCAATAAAATGTCTAAGGAA
CTTCACAGACTGGAAACAATATTGAAACACTGGACCAGATATCAAAGTGAATCTGCAGATCTAATTCAGTGGTTA
CAATCTGCAAAAGACCGGCTAGAATTTTGGACTCAGCAATCTGTGACAGTCCCAAGAGCTGGAAATGGTCCGT
GATCATCTAAATGCTTTCTGGAGTTTTCTAAAGAAGTGGATGCCCAATCTTCCCTGAAATCATCTGTTCTGAGT
ACTGGAAATCAGCTCCTTCGACTAAAAAGGTGGACACAGCCACGCTGCGCTCTGAGCTGTGCGCATTGATAGC
CAGTGGACTGACCTGCTAACCAATATCCCAGCCGTCCAGGAGAAGCTCCACCAGCTCCAGATGGATAAACTGCCT
TCCCGCCATGCCATTTCTGAAGTCATGAGTTGGATTTCTCTAATGGAAAATGTTATTCAGAAGGATGAAGATAAT
ATTAATAATTCATAGGTTACAAGGCAATTCATGAATACCTTCAGAAATATAAGGGTTTTAAGATAGACATTAAC
TGTAACAGCTGACAGTGGATTTTGTGAACCACTCCGTGCTACAAATCAGCAGTCAGGATGTGGAAAGTAAGCGT
AGTGATAAGACTGATTTTGTGCTGAGCAACTTGGAGCAATGAATAAAAGTTGGCAAATCTGCAAGGTCTAGTAAT
GAGAAGATCCAGCTGTTGGAAGGCTTATTGGAATCTTGGTCAGAATATGAAAATAATGTACAATGTCTGAAAACA
TGGTTTGAACCCAGGAAAAGAGACTAAAAACAACAGCATCGAATTGGAGATCAGGCTTCTGTTCAAAATGCACTG
AAAGACTGTCAGGATCTGGAAGATTTGATTAAAGCAAAAGAAAAGAAGTAGAGAAAATTGAGCAGAATGGACTT
GCTTTGATTGACAACAAGAAAGAAGACGCTCTCTAGCATTGTCTGAGCACACTGCGAGAGCTCGGCCAAACCTGG
GCAAATTTAGATCACATGGTTGGACAATTAAAGATACTGCTGAAATCAGTGCTTGACCAATGGAGTAGTCACAAA
GTGGCCTTTGACAAGATAAACAGTTACCTCATGGAGGCCAGATACTCTCTTTCCCGATTCCGTCTGCTGACTGGC
TCCTTAGAAGCTGTGCAAGTTTCAGGTGGACAATCTTCAGAATCTCCAAGATGATCTGGAACCAAGGAGC
TTACAGAAATTTGGCTCTATCACCAACCAATTATTAAGAGAGTGTCAACCCACCGTGACAGAACTCTTACCAAT
ACACTGAAAGAAGTCAACATGAGATGGAATAACTTGCTGGAAGAGATTGCTGAGCAGCTACAGTCCAGCAAGGCC
CTACTTCAGCTTTGGCAAAGATACAAGGACTACTCCAAACAGTGTGCTTCGACAGTTCAGCAGCAGGAGGATCGA
ACCAATGAGCTGTTGAAGGCAGCCACAAACAAGGACATTGCCGATGATGAGGTTGCCACATGGATTCAAGATTGC
AACGACCTCCTCAAAGGACTGGGCACAGTTAAAGATTCCCTCTTTTTCTCCATGAGCTGGGAGAGCAACTGAAG
CAACAAGTGGATGCTTCCGCAGCATCAGCTATTCAATCGGATCAACTCTCTTTGAGTCAACACTTGTGTGCCCTG
GAGCAAGCTCTCTGCAAACAGCAGACTTCATTACAGGCTGGAGTTCTTGATTATGAAACCTTTGCCAAGAGTTTA
GAAGCTTTGGAGGCCTGGATAGTGAAGCTGAAGAAATACTACAAGGGCAGGACCCTAGCCACTCATCTGACCTC
TCCACAATCCAGGAAAGGATGGAAGAACTTAAGGGACAGATGTTAAAAATTCAGCAGCATGGCTCCAGATTTAGAC
CGTCTAAATGAGCTTGATATAGGTTACCCTTGAATGATAAGGAAATCAAAAGAATGCAGAATCTGAACCGCCAT
TGGTCTCTGATCTCCTCTCAGACTACAGAAAGATTAGCAAGTTGCAGTCATTTTTGCTACAACATCAGACTTTC
TTGGAAAAATGTGAAACATGGATGGAATTCCTAGTTTACAGACAGAAACAAAAGTTAGCAGTAGAGATTTAGGAAAT
TATCAGCACCTTTTGAACAGCAGAGAGCACACGAGTTGTTTCAAGCCGAGATGTTTCAGTCGTCAGCAGATTTTG
CACTCAATCATTATTGATGGGCAACGTCTTCTAGAACAAGGTCAAGTTGATGACAGGGATGAATTCACCTGAAA
TTGACACTCCTCAGTAATCAATGGCAGGGAGTGATTTCGAGGGCCAGCAGAGGCGGGGATCATTGACAGCCAG
ATTGCCAGTGGCAGCGCTATAGGGAGATGGCAGAAAAGCTTCGTAAATGGTTGGTTGAAGTGTCTACCTCCCC
ATGAGTGGTCTCGGAAGTGTTCCTATACCACTGCAACAAGCAAGGACCCTCTTTGATGAAGTGCAGTTCAAAGAA
AAAGTGTCTTCTGCGGCAACAAGGCAGCTACATCCTGACTGTGGAGGCTGGCAAGCAACTCCTTCTCTCGGCGGAC
AGTGGCGCTGAGGCCGCTTGCAGGCCGAACCTCGCTGAAATCCAAGAGAAATGGAAATCAGCCAGCATGCGGCTG
GAAGAACAGAAGAAAAAACTAGCCTTCTTGTGAAAGACTGGGAAAAATGTGAGAAAGGAATAGCAGATTCCTTG
GAGAACTACGAACCTTTCAAAAAAGAGCTTTTCGAGTCTCTCCCGATCACCATGAAGAGCTCCATGCAGAACAA
ATGCGTTGCAAGGAATTAGAAAAATGCAGTTGGGAGCTGGACAGATGACTTGACCCAGTTGAGCCTGCTGAAGGAC
ACCCTCTCTGCCTATATCAGTGCTGATATCTCCATTCTTAATGAACGCGTAGAGCTTCTGCAAGGCAGTGG
GAAGAATATGCCACCAGCTCTCCTTAAGGCGGCAGCAAATAGGTGAAAGATTGAATGAATGGGCAGTCTTCAGT
GAAAAGAACAAGGAATCTGTGAGTGGTTGACTCAAATGGAAAGCAAAGTTTCTCAGAATGGAGACATTCTCATT
GAAGAAATGATAGAGAAGCTCAAGAAGGATTATCAAGAGGAAATTGCTATTGCTCAAGAGAACAAAATACAGCTC

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FIGURE 2123C

CAACAAATGGGAGAACGACTTGCTAAAGCCAGCCATGAAAGCAAAGCATCTGAGATTGAATACAAGCTGGGAAAG
GTCAACGACCGGTGGCAGCATCTCCTGGACCTCATTGCAGCCAGGGTGAAGAAGCTGAAGGAGACCCTGGTAGCC
GTGCAGCAGCTTGATAAGAACATGAGCAGCCTGAGGACCTGGCTCGCTCACATCGAGTCAGAGCTGGCCAAGCCA
ATAGTCTACGATTCTGTAACTCGGAAGAAATACAGAGAAAGCTTAATGAGCAGCAGGAGCTTCAGAGAGACATA
GAGAAGCACAGTACAGGTGTTGCATCTGTCTCAACCTGTGTGAAGTCCTGCTGCACGACTGTGACGCCTGTGCC
ACTGATGCCGAGTGTGACTCTATACAGCAGGCTACGAGAAACCTGGACCGGCGGTGGAGAAACATTTGTGCTATG
TCCATGGAAAGGAGGCTGAAAATCGAAGAGACGTGGCGATTGTGGCAGAAATTTCTGGATGACTATTACGTTTT
GAAGATTGGCTGAAGTCTTCAGAAAGGACAGCTGCTTTTCCAGCTCTTCTGGGGTGATCTATACAGTTGCCAAG
GAAGAACTAAAGAAATTTGAGGCTTTCCAGCGACAGGTCCACGAGTGCCTGACGCAGCTGGAAGTATCAACAAG
CAGTACCGCCGCTGGCCAGGGAGAACCAGCTGATTACAGCATGTAGCCTCAAACAGATGGTTTACGAAGGCAAC
CAGAGATGGGACAACCTGCAAAAGCGTGTACCTCCATCTTGCAGAGCTCAAGCATTTTATTGGCCAGCGTGAG
GAGTTTGAGACTGCGCGGGACAGCATTCTGGTCTGGCTCACAGAGATGGATCTGCAGCTCACTAATATTGAACAT
TTTTCTGAGTGTGATGTTCAAGCTAAAAATAAGCAACTCAAGGCCTTCCAGCAGGAAATTTCACTGAACCACAAT
AAGATTGAGCAGATAATTGCCCAAGGAGAACAGCTGATAGAAAAGAGTGAGCCCTTGGATGCAGCGATCATCGAG
GAGGAAGTAGATGAGCTCCGACGGTACTGCCAGGAGGTCTTCGGGCGTGTGGAAAGATAACCATAAGAACTGATC
CGCCTGCCTCTCCAGACGATGAGCACGACCTCTCAGACAGGGAGCTGGAGCTGGAAGACTCTGCAGCTCTGTCTG
GACCTGCACTGGCACGACCGCTCTGCAGACAGCCTGCTTTCTCCACAGCCTTCTCCAATCTCTCCCTCTCGCTC
GCTCAGCCCTTCCGGAGCGAGCGGTGAGGACGAGACACCCGCGTAGTGTGGACTCCATCCCCCTGGAGTGGGAT
CACGACTATGACCTCAGTCGGGACCTGGAGTCTGCAATGTCCAGAGCTCTGCCCTCTGAGGATGAAGAAGGTCAG
GATGACAAAGATTTCTACCTCCGGGGAGCTGTTGGCTTATCAGGGGACCACAGTGCCCTAGAGTCACAGATCCGA
CAACTGGGCAAAGCCCTGGATGATAGCCGTTTTTCAGATACAGCAAACCGAAAATATCATTCGCAGCAAAAACCTCCC
ACGGGGCCGGAGCTAGACACCAGCTACAAAGGCTACATGAACTGCTGGGCGAATGCAGTAGCAGTATAGACTCC
GTGAAGAGACTGGAGCACAACTGAAGGAGGAAGAGGAGAGCCTTCTGGCTTTGTTAACCTGCATAGTACCGAA
ACCCAAACGGCTGGTGTGATTGACCGATGGGAGCTTCTCCAGGCCAGGCATTGAGCAAGGAGTTGAGGATGAAG
CAGAACCTCCAGAAGTGGCAGCAGTTTAACTCAGACTTGAACAGCATCTGGGCCTGGCTGGGGGACACGGAGGAG
GAGTTGGAACAGCTCCAGCGTCTGGAACCTCAGCACTGACATCCAGACCATCGAGCTCCAGATCAAAAAGCTCAAG
GAGCTCCAGAAAGCTGTGGACCACCGCAAAGCCATCATCCTCTCCATCAATCTCTGCAGCCCTGAGTTACCCAG
GCTGACAGCAAGGAGAGCCGGGACCTGCAGGATCGCTTGTGCGAGATGAATGGGCGCTGGGACCGAGTGTGCTCT
CTGCTGGAGGAGTGGCGGGGCTGCTGCAGGATGCCCTGATGCAGTGCCAGGGTTTTCCATGAAATGAGCCATGGT
TTGCTTCTTATGCTGGAGAACATTGAAGAAGGAAAAATGAAATTGTCCCTATTGATTCTAACCTTGATGCAGAG
ATACTTCAGGACCATCACAAACAGCTTATGCAAATAAAGCATGAGCTGTTGGAATCCCAACTCAGAGTAGCCTCT
TTGCAAGACATGTCTTGCCAACTACTGGTGAATGCTGAAGGAACAGACTGTTTAGAAGCCAAAGAAAAAGTCCAT
GTTATTGGAATCGGCTCAAACCTCTCTTGAAGGAGGTGAGTCGTATATCAAGGAAGTGGAGAAGTTATTAGAC
GTGTCAAGTAGTCAGCAGGATTTGTCTTCTGGTCTTCTGCTGATGAACCTGGACACCTCAGGGTCTGTGAGTCCC
ACATCAGGAAGGAGCACCCCAAACAGACAGAAAACGCCACGAGGCAAGTGTAGTCTCTCACAGCCTGGACCTCT
GTCAGCAGTCCACATAGCAGGTCCACAAAAGGTGGCTCCGATTCTCTCCCTTTCTGAGCCAGGGCCAGGTCCGTCC
GGCCGCGGCTTCTGTTCAGAGTCTCCGAGCAGCTCTTCCCCCTCAGCTTCTCTGCTCCTCCTCATCGGGCTT
GCCTGCCTTGTACCAATGTGAGAGGAAGACTACAGCTGTGCCCTCTCCAACAACCTTTGCCCGGTCAATCCACCCC
ATGCTCAGATACACGAATGGCCCTCCTCCACTCTGAACTAAGCAGATGCCATCTGCAGAAGTGTGGTAGCATAA
GGAGGATCGGGTCATAAGCAATCCCAAACCTACCAACAAGAGGACCTTGATCTTGCGAAAGCCCTCGGTGTGGCA
GCTTTAGCCCTCCTCCAGATCACATGTGTGCAAATTATGGCTTCAGAGGTGGAAGATAAACAGTGACGGGGGAAC
AAACAGACAACAAGAAGGTTTGGAAAGAAATCTGGTTTGAGACTCTGAACCTTAGCACTAAGGAGATTGAGTAAGG
ACCTCCAAAGTTCCCCGACTCATGAATTCTGGGCCCTTGGCCATTCTGTGCACAGCCAAGGACTTCAGTAGAC
CATCTGGGCAGCTTTCCCATGGTGTCTCCAACCATCAGATAAATGACCTCCCAAGCACCATGTGAGTGTCTG
ACAATCTACCAACCAACCAGTGTGAAGAGATTTTAGAACCTTGTAACATACAATTTTAAAGAGCTTATATGGCA
GCTTCCCTTTTTACCTTGTTTTCCCTTTGGGGCATGATGTTTTAACCTTTGCTTTAGAAAGCACAAGCTGTAAATCTA
AAAGGCACTTTTTTTAGAGGTATAAAGAAAACTAGATGTAATAAATAAGATCATGGAAGGCTTTATGTGAAAA
AAGTTGAATGTTATAGT

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FIGURE 2124A

GCAGAGTCTGAGTCCCACTCCGCACCCACCCCTCTGTCTGGTACAGCTTACCAAACCAAAGTGCCCAAAGCCGTG
ACATCCCGGCCGGCGGCTCGCAGGCCCGCCCTCCGCACGTACGGCCCGGGTGCAGTGCCCCCTAGGGGCC
CCTGGGACGAGGAGGAAGCGCCAGGTCTTCCCGCCGCCGCCGCCGCCGCCCGCTGCTCCCCTGGCACGCGC
CCCGCCGCCCTCGGCAGCCGCAGCTCCGTGTCCCTGAGAACCAGCCGTCCCGCGCCATGGGCACGCGTCTGCCG
CTCGTCTGCGCCAGCTCCGCCGCCGCCGCCAGCCCCGGGCCCTCCGCGCCGCTCCGTGTGCCCTGTGCGCT
AGCAGCGGCGGCGGCGGAGGCGGCGGCTGGCCGGGAGGGCCTGCTTGGACAGCGGCGGCGCAGGATGGCCAG
GCCCCGAGCAGCTGCAGCCCCGGCGGCCGAACGCCCGCGGCGCGGACTCCATCGTCAGAGAAGTCATTGAGAA
TCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCTGCCTTCAAGCCGGTTCTTGCAATTATCCAGGCAGGT
GACGACAACTTGATGCAGGAAATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTC
CCTCCAGATAGCAGTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTT
GCCCTTCAGATCTCTGAGAACTTGTTTTAGCAACAAAGTCTCAATGCCTTGAAACCAGAAAAAGATGTGGATGGA
GTAACAGACATAAACCTGGGGAAGCTGGTGCAGGGGATGCCCATGAATGTTTTGTTTCACCTGTTGCCAAAGCT
GTAATTGAACTTCTTGAAAAATCAGTAGGTGTCAACCTAGATGGAAAGAAGATTTTGGTAGTGGGGGCCCATGGG
TCTTTGGAAGCTGCTCTACAATGCCTGTTCCAGAGAAAAAGGTCCATGACAATGAGCATCCAGTGGAAAAACAGC
CAGCTTCAAAGCAAGCTTACGAGGGCTGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCCCCTTACT
TGGATACAACCAGGAACCTACTGTTCTCAACTGCTCCCATGACTTCCTGTGAGGGAAGGTTGGGTGTGGCTCTCCA
AGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTCCTGTGCTGCAGCTCTGCGAATTCAGAACATG
GTCAGTAGTGGAAGGAGATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCT
CTCTCCCCTGTGCCAAGTGACATTGAGATTTCAAGAGGACAACTCCAAAAGCTGTGGATGTCTTGCCAAGGAG
ATTGGATTGCTTGAGATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAGG
TTAAAGGATCAAGCAGATGGAAAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGAGAGAAGGGAAGAGC
ACAGTACCATCGGGCTTGTGAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCT
TCCCAAGGACCGACGTTTGGAGTGAAAGGAGGAGCCGCGGGTGGTGGATATGCCAGGTCATCCCCATGGAGGAG
TTCAACCTTCACCTTGACTGGAGACATCCACGCCATCACCGTGCCAATAACTTGCTGGCTGCCGCCATCGACACG
AGGATTCTTCATGAAAACACGCAAACAGATAAGGCTCTGTATAATCGGCTGGTTCCTTTAGTGAATGGTGTGAGA
GAATTTTCAGAAATTCAGCTTGCTCGGCTAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAA
GAGGAAGTGAGTAAATTTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAAT
GACCGATTTCTACGAAAAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGAC
ATCGCAGTGGCCAGCGAGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGA
AGGATGGTGGTGGCCAGTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACA
GTTTTGATGAAAGATGCAATAAAACCAACCTGATGCAGACCCTGGAAGGGACACCTGTGTTGCTGCATGCGGGC
CCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAA
GGATTTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATGGAGAAATCTTCAACATCAAGTGCCGAGCT
TCCGGCTTGGTGCCCAACGTGGTTGTGTTAGTGGCAACGGTGCAGCTCTGAAGATGCATGGAGGCGGGCCAAGT
GTAACGGCTGGTGTTCCTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAAC
CTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGTCTTCAAGACCGAC
ACCCGCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCAC
TGGTCCGTTGGTGGAAAAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAAGAACCGATT
CAGTTCTGTATGATGTTTCAAGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAA
GATATTGAACTCTCTCTGAGGCACAAGCCAAAATAGATCGTTTACACTCAACAGGGTTTTGGAAATTTGCCCATC
TGCATGGCAAAGACCCACCTTTCTCTATCTCACCAACCTGACAAAAAGGTGTGCCAAGGGACTTCATCTTACCT
ATCAGTGACGTCCGGGCCAGCATAGGCGCTGGGTTCATTTACCCTTTGGTCGGAACGATGAGCACCATGCCAGGA
CTGCCACCCGGCCCTGCTTTTATGACATAGATCTTGATACCGAAACAGAACAAAGTTAAAGGCTTGTCTAAGTG
GACAAGGCTCTCACAGGACCCGATGCAGACTCTGAAACAGACTACTCTTTGCCTTTTGTGCTGAGTTGGAGAAG
AACTGAATTTGAAAAATGTCTGTTATGCAATGCTGGAGACATGGTGAATAGGCCAAAGATTTCTTCTTCGTTT
AAGATGAATTTGTTTACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTA
TTTCTGTTTCTGTGGAGTTTCCATTATTTCTACTGCTTACACTTTAGAATGTTTATTTTATGGGGACTAAGGGAT
TAGGAGTGTGAACTAAAAGGTAACATTTTCCACTCTCAAGTTTCTACTTTGTCTTTGAACTGAAAATAAACATG

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FIGURE 2124B

GATCTAGAAAACC

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FIGURE 2125

MVSSGRRWLREQQHRRWRLHCLKLQPLSPVPSDIEISRGQTPKAVDVLAKEIGLLADEIEIYGKSKAKVRLSVLE
RLKDQADGKYVLVAGITPTPLGEGKSTVTIGLVQALTAHLNVNSFACLRQPSQGP'FGVKGGAAGGGYAQVIPME
EFNLHLTGDIHAITAANNLLAAAIDTRILHENTQTDKALYNRLVPLVNGVREFSEIQLARLKIIRNWE

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FIGURE 2126

ACTCTTGGGAAAACCTGCTGGGCACCGTCGTCGCGCTGAAGGTGGTTCTGTACCTGCTCCGAGTGTGCTTAGCGAT
GGCCTGGAAATCCGGCGGCGCCAGCCACTCGGAGCTAATCCACAATCTCCGCAAAAATGGAATCATCAAGACAGA
TAAAGTATTTGAAGTGATGCTGGCTACAGACCGCTCCCACTATGCAAAATGTAACCCATACATGGATTCTCCACA
ATCAATAGGTTTCCAAGCAACAATCAGTGCTCCACACATGCATGCATATGCGCTAGAACTTCTATTTGATCAGTT
GCATGAAGGAGCTAAAGCTCTTGATGTAGGATCTGGAAGTGAATCCTTACTGCATGTTTTGCACGTATGGTTGG
ATGTACTGGAAAAGTCATAGGAATTGATCACATTAAAGAGCTAGTAGATGACTCAGTAAATAATGTCAGGAAGGA
CGATCCAACACTTCTGTCTTCAGGGAGAGTACAGCTTGTTGTGGGGGATGGAAGAATGGGATATGCTGAAGAAGC
CCCTTATGATGCCATTTCATGTGGGAGCTGCAGCCCCTGTTGTACCCAGGCGCTAATAGATCAGTTAAAGCCCGG
AGGAAGATTGATATTGCCGTGTGGTCCTGCAGGCGGAAACCAAATGTTGGAGCAGTATGACAAGCTACAAGATGG
CAGCATCAAAATGAAGCCTCTGATGGGGGTGATATACGTGCCTTTAACAGATAAAAGAAAAGCAGTGGTCCAGGTG
GAAGTGAATTTTATCTTCTGCTCTTTCTTCTTCCACACATGCAAGGGATGAATTGTAAAAGCAACATCAGCTTGAC
CAGTATAAAATTACAGTGGATTGCTCATCTCAGTCCTCAAAGCTTTTTGAAAACCAACACCATCACAGCTTGTTT
TGGACTTTGTTACACTGTTATTTTCAGCATGAAAATGTGTGTTTTTTAGGGTTTCTGATTCTTCAAAGAGGCAC
AGAGCCAAATTGGTAGAGGAAGGATGCAAAGTATAAATTTGTGTAATATTACTTTAACATGCCCATATTTTACTT
GGAAATATTAAAAGAAAGGGTTCTGTAAAATGGAAAACCTTAGTTTTGTGAATTGATTTTGAGGAGTGGTTTTTCTT
TTCTTGGACACTTAATTCTGTTCTGATATTAATTTATCAGATTGCTTTTGTGCATTGGATAACACCACCATTCAC
AAGTTAAGATTCTTGGTATTTGGATATCTGTTAGATGCTACTAAGAAAATAGAGATGAGCTTTCTTTTTAAAGCT
TTTGATGTGGTGTCATAGAATAGCATGTTGTAGATACAATCAGCTGCTTTGTTACCTTAAAACCTAGGCATTTGTA
AATATTAAACCTTAAGATGGCAGGTGATGTCTGTAAACACTCAGCTGTTTCAGATTGGACATAACTGACTTAGTT
CTTCCCTTCTCTCTCTCTCAAAATTATAGGAGACTTGTAGTTTAGTGTGGTTTTCTGTTTCTAATTTGCTGCTGA
TAATGTATATGAACCTAACATGCTGTGTAAGCTGTGTCCTAGTTCTTGAACAGTTTATGCAGTGCTGCTTTGCCA
AATAAAGTTAAAAGTAAAAGAGGC

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FIGURE 2127

MAWKSGGASHSELIHNLRKNGIIKTDKVFVMLATDRSHYAKCNPYMDSPQSIGFQATISAPMHAYALELLFDQ
LHEGAKALDVGSGSGILTACFARMVGCTGKVIDHIKELVDDSVNNVRKDDPTLLSSGRVQLVVGDRMGYAE
APYDAIHVGAAAPVVPQALIDQLKPGGRLILPVGPAAGNQMLEQYDKLQDGSIKMKPLMGVIYVPLTDKEKQWSR
WK

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FIGURE 2128A

ACTCTGGCAAGTTGCGGGCGCGCGGGGAGCTGTGCGGGGACGCGGCCCTCGGGAGGACGTGGCCCCGGCCCCCG
CCCCGAGTGGGCCCCGACCTCATGCCCTGAGCAAAGGGCTGCGGCTGCTGGGGCGCCTGGGGGCCGAGGGGGAC
TGTAGCGTGCTGCTGGAGGCGCGCGGCCGACGACTGCCTGCTGTTTCGAGGCCGGCACGGTGGCCACGCTGGCT
CCAGAAGAAAAGGAAGTCATTAAAGGACAGTATGGCAAGCTCACGGACGCGTACGGCTGCCTGGGGGAGCTGAGG
CTGAAATCTGGTGGCAGTCTCTGAGCTTCCTGGTGTGGTGACAGGCTGCACATCTGTGGGCAGAATTCAGAT
GCTGAAATCTACAAAATCACTGCCACTGACTTTTACCCTCTTCAGGAAGAGGCCAAGGAGGAGGAACGCCTCATA
GCTTTGAAGAAAATCCTCAGCTCGGGGGTGTTCATTCTCATGGCCAAACGATGGGTCTCGCTTTGACCTGACT
GTCCGCACGCAGAAGCAGGGGGATGACAGCTCTGAATGGGGGAACCTCTTCTTCTGGAACCAGCTGTTGCACGTG
CCCTTGAGGCAGCACCAGGTGAGCTGCTGTGACTGGCTGCTGAAGATCATCTGCGGGGTGGTCACCATCCGCACC
GTGTATGCCTCCCACAAGCAGGCCAAGGCCTGCCTCGTCTCTCGCGTTAGCTGTGAGCGCACAGGCACTCGCTTC
CACACCCGTGGCGTGAACGACGACGGCCATGTGTCCAACCTTCGTGGAGACAGAGCAGATGATTACATGGACGAT
GGAGTGTCTATCTTTTGTCCAGATCAGAGGCTCCGTTCCGCTGTTCTGGGAACAGCCAGGGCTTCAGGTTGGCTCC
CATCATCTGAGACTCCACAGAGGCTTGAAGCCAAATGCCCTGCTTTTCGACAGGCACATGGTGTCTCTGAAGGAG
CAGTACGGGCAGCAGGTGGTGTGAACCTTCTGGGAAGCAGAGGCGGAGAGGAGGTGCTCAACAGAGCCTTCAAG
AAGCTGCTCTGGGCTTCTTGCCACGCGGGCGACACGCCTATGATCAATTTTGACTTCCATCAGTTTGCCAAAGGT
GGGAAGCTAGAGAAATTGGAGACCTCTTGAGGCCACAGTTAAAGCTGCACTGGGAAGACTTCGATGTGTTTACA
AAGGGGGAGAACGTCACTCCACGTTTTTCAGAAAGGCACCTTTCGGATGAAGTGTCTTGACTGCCTGGACCGAACC
AACACTGTGCAGAGCTTCATCGCGCTCGAGGTCTGCATCTGCAGCTCAAGACCCTGGGGCTGAGTTCAAAAACC
ATCGTTGACCGCTTTGTGGAGTCCTTCAAAGCCATGTGGTCTCTGAATGGCCACAGCCTGAGCAAGGTGTTTACA
GGCAGCAGAGCCCTGGAAGGGAAGGCCAAGGTGGGGAAGCTGAAGGATGGAGCCCGGTCCATGTCTCGAACCATC
CAGTCCAACCTTCTTCGACGGGGTGAAGCAGGAGGCCATCAAGCTGCTGCTGGTGGGGACGTCTACGGCGAGGAG
GTGGCAGACAAAGGGGGCATGCTGCTGGACAGCACGGCGCTCCTGGTACTCCCAGGATCCTGAAAGCTATGACT
GAGCGTCAGTCCGAATTCACAAATTTCAAGCGGATCCGGATTGCTATGGGGACCTGGAACGTGAACGGAGGAAAG
CAGTTCCGGAGCAACGTGCTCAGGACGGCGGAGCTGACAGACTGGCTGCTCGACTCGCCCCAGCTCTCGGGAGCT
ACCGACTCCCAGGATGACAGCAGCCAGCTGACATATTTGCTGTGGGGTTTGAAGAGATGGTGAATTGAGCGCA
GGGAATATTGTCAATGCCAGTACTACCAACAAGAAGATGTGGGGTGAACAGCTTCAGAAAGCCATCTCACGCTCT
CATAGATACATTCTGTTGACTTCGGCACAGCTGGTGGGCGTCTGTCTTTATATCTTTGTACGTCCATACCATGTC
CCGTTTCATCAGGGACGTAGCCATCGACACAGTGAAGACGGGCATGGGGGGCAAGGCGGGGAACAAGGGCGCGCTC
GGCATCCGCTTCCAGTTCCACAGCACCAGCTTCTGCTTCATATGTAGTCACCTGACGGCCGGGCAGTCCCAGGTG
AAGGAGCGGAATGAAGACTACAAGGAGATCACCCAGAAACTCTGCTTCCCAATGGGGAGAAATGTTTTTCTCAT
GATTATGTATTTTGGTGTGGCGATTTCAACTACCGCATTGATCTTACTTATGAAGAAGTCTTCTATTTTGTAA
CGCCAAGACTGGAAGAACTTCTGGAATTTGATCAACTACAGCTACAGAAATCAAGTGGAAAAATTTTAAAGGAC
TTTCACGAAGGAGCCATTAACCTTTGGACCCACCTACAAGTATGACGTTGGCTCAGCCGCCCTACGATACAAGCGAC
AAATGCCGCACCCCCGCCTGGACAGACAGGGTGTGTGGTGGAGGAAGAAACATCCCTTTGATAAAACAGCTGGA
GAACTCAACCTTCTAGACAGTGATCTAGATGTTGACACCAAAGTCAGACACACCTGGTCTCCTGGTGCCCTGCAG
TATTATGGTCGTGCGGAGCTACAAGCGTCTGATCACAGACCTGTGCTGGCGATCGTGGAGGTGGAAGTTCAGGAA
GTCGATGTGGGTGCTCGGGAGAGGGTTTTCCAGGAAGTGTCTCCTTCCAGGGCCCCCTGGATGCCACTGTTGTA
GTAAACCTTCAATCACCGACCTTAGAAGAGAAAAACGAGTTTCAGAGGACCTGCGTACTGAGCTCATGCAGACC
TTGGGGAGTTATGGGACAATTGTTCTTGTGTCAGGATCAACCAAGGGCAGATGCTGGTAACTTTTGACAGACAGTCAC
TCGGCTCTCAGTGTCTGGACGTGGACGGTATGAAGGTGAAAGGCAGAGCAGTGAAGATTAGACCGAAGACCAAG
GACTGGCTGAAAGGTTTTCGAGAGGAGATCATTTCGGAACGAGACAGCATGGCCCCCGTGTCTCCCACTGCCAAC
TCCTGTTTGTCTGGAGGAAAACTTTGACTTCACAAGTTTGGACTATGAGTCAGAAAGGGGATATTCTTGAAGACGAT
GAAGACTACTTGGTGGATGAATTCAATCAGCCTGGAGTCTCGGACAGTGAACCTCGGGGGAGACGACCTCTCTGAT
GTCCCCGGCCCCACAGCACTGGCTCCTCCCAGCAAGTCACCTGCTCTACCAAAAAAGAGCAGCATCCAACGTAC
AAAGATGACGCGGACCTGGTGGAGCTCAAGCGGGAGCTGGAAGCCGTGCGGGAGTTCCGCCACCGTTCTCCGAGC
AGGTCTCTGTGCGTCCCCAACCGGCCTCGGCCACCTCAACCCCCGAGAGACCCCCCTCCAACCGGTTTAAATG
GTGAAAAAGTCGGCTTCAGATGCGTCCATCTCCTCCGGCACCCATGGACAGTATTCAATTTTGACAGCGGCAAGA
CTTCTACCAGGAGCACCTCAGCAACCTCCCAAGGCTCGGACTGGAATAAGTAAACCTTATAATGTCAAGCAGATC

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FIGURE 2128B

AAAACCACCAATGCCCAGGAGGCAGAAGCAGCAATCCGGTGTCTCCTGGAAGCCAGAGGAGGTGCCTCCGAAGAA
GCCCTAAGTGCCGTGGCCCCAAGGGACCTTGAAGCATCCTCTGAACCAGAGCCCCACACCGGGGGCAGCCAAACCA
GAGACCCACAGGCGCCCCCACTCCTTCCCCGTGGCCCCCAGCCAGAGTTCTGCCATCAAGAAGCCAACCTTG
AGAAGGACAGGAAAGCCCCCTGTACCGGAAGAACAGTTTGAGCAACAGACTGTCCATTTTACAATCGGGCCCCCG
GAGACAAGCGTTGAGGCCCCCTCCTGTCTGACAGCCCCCTCGAGTCCCTCCTGTTCCCAAACCAAGAACATTTTTCAG
CCTGGGAAAGCTGCAGAGAGGCCAAGCCACAGGAAGCCAGCATCAGACGAAGCCCCCTCCTGGGGCAGGAGCCTCT
GTGCCACCACCTCTGGAGGCGCCGCTCTTGTGCCAAAGGTACCCCCGAGGAGGAAGAAGTCAGCCCCCGCAGCC
TTCCACCTGCAGGTCTCTGCAGAGCAACAGCCAGCTTCTCCAGGGCCTCACTTACAATAGCAGTGACAGCCCCCTCT
GGGCACCCACCTGCCGCGGGCACCCTCTTCCCACAAGGGGACTTTCTCAGCACTTCATCTGCTACAAGCCCCGAC
AGCGATGGCACCAAAGCGATGAAGCCAGAGGCAGCCCCACTTCTTGGTGATTATCAGGACCCCTTCTGGAACCTT
CTTCACCACCCTAAACTGTTGAATAACACTTGGCTTTCTAAGAGCTCAGACCCCTTTGGACTCAGGAACCAGGAGC
CCAAAAGAGATCCCATAGACCCAGTGTCTGAGCTGGCGCTTCAGCTGCCAAGGCAGAGCTGCCACCAGATCATGAA
CACAAAACCTTAGGTCACTGGGTGACAATCAGTGACCAAGAAAAGAGGACAGCACTGCAGGTGTTTGACCCACTG
GCAAAAACATGACTGAGCAGCTTTGAAGGCTGCAGTCTTATAGAATGCATACCTTCTCCCTCTAGACATCCCTC
CACCAGAAGAGACATCTATTTAAAGGCACACTGGCCAAAACGTTTGTGCATCTGTCACTCTCGTGTAGTTTACAA
AAATCGTGTCTCTTATTTCAGTAAGATGGTTACTCAGCCACCAAATATATTTCACTCAAGGCTTGTACATCTGAA
GTTTGCTCTTCAAGGAATGGGAACCTTCTGTATAATTCGGTGTATGGATTTTAAGAAAGGAATCTAGCCAAATGA
GGTCCAAGAAGTTCTACCCATTGAATTTTAAATGGCTGTTTCAAGTTCATGTTGTACGTGATGGAGATTTGTCTT
TTGTTTTATTGTCATTTTACAGATTTGGTATAACATTTTGGGGAGCCACCTGAAGGTTGATGTATAAAGTAAGGA
TTAGAGAAAGAGGTGCTTGTGACCATTAGTAGCTGTCTGGCCCACTTAAACAAGGTTACAAAAAATCAGAGTCG
GAAGCAGCCAAATAGGTCAACCTAATGACTAGACTGTACATTCCCATGAGCCTTCATGTTTAAAGTGTGTACATGT
GCGTTAACCTTGATGATGCGTGAATCCCGAGGGAGCCGGTGGCATAACCGTTAGCTTAACCTTAGCTTAAACTA
GCTGAAGGCTCCTGTGCCATGTCTTAGACATTGCATGCCCTATCAATTACTATAATCCTGAGCCATGGTGTGCTA
CTGAAACCAATTTTTATCCACCATCTAGTCTTATTAATGAAACCTCACGGATCCTTTGTTCCGCTTATATTCC
ATGCATACCACATAAAAGCACACAGTGCAGAAAACCTCTTGCTGATACGCGATATTGATTCTCATTGTTAGAATATG
GAGAGTGTTCAGCCTCGTCTGTCCGGCTGGAGCTTCGGGATGGAAAGTGCTATGTGTCCCTGCATATAAGAATC
ACCAGGCCAGTGTTCCTGGGTTTGTCTGTCTATATGTTTGTCTATATTTTTTGCTTATACATTTTTCCACGTTT
CCAACAGCACTTCTCACCTATTCAATAACTGAAAAAGACATTACCATAGTGCTTTACATTTTTTAAGTAATGTTA
CAAGGTCTGGAATCCATTTGGAGCAGATACCGTGTTTTTCGCTATTTAATAAGAAGTTCAGTAGTGAAATCTTACT
GTACCGCCTGTTGTATCTGGGAGCCTCGTACAGAGGCTCGCACAGCAGTGATCAAGTGTATCCCTTACGTGACT
GGGGGATGTCTGTCTTAAAGCTGACTGCTAGGATAGTAAGGATCATCTTGCTGGGCTATGCCACTGTCTTGTT
ACCAATTAGACATCTGGAATTTTATAATTAGTTTTTATTGTCACTGTCAAGATATATTGCAGATTACTTAAATAT
GGCCATCAAAACAAAAGTTACAACACGTATCTCTTTTTCATCTGAAAACCTAATACCTGGAAAAGGATAAAAAA
AAGGAATCCGTGACCCACAGAGCTAGACAGATAAGATGCATAGTTGACCAGTCATAAAAGGCGGTGTTTAGGTGA
TCAGGATGCCGTGGTGGCATTACGTGCTTTATATGATTTTTTACCTCTGTAACAAACACAAGAAATAAACAGAA
TGGTCTTAACAGAGTTTGGGGGAGAGAGCAAGATGGGTTTCTTGGAGAAGCTGATTGCCAAGATGCACATCGC
TATTAACAGCCAGAGTCATAAATGAAATGAAATGAAGAATTCATTCAAATGCTCTTTTCCCTATAACCTCTTTT
CTCACCAAAAAGGAGATAAATTTGAAAACAGATAAATGTAACAACCAGTCAAAGAAGCAGGGGAAAAGTAAGCTC
CTCCAAAGTTGCTTGCAGTGCTGGAATAGATCTCATTTTTTAGGTTTTCTCTCGTTCCAGATACCAATAAATG
GGACAGAGAATAAAATTTTTGTTAAATATGTGCTCATCTCCTAAGTAGCTCTTCAGAGTCTGACCGTAAGTAA
AACACACAGAATTGTGTTGACTGGGGGAGGTGAATCACAAAAAGTTACGAGGAGTTTAAAGAGTTAAATATTATT
TGATCGTGGCTGTCAAATTTAGTGAACAACATAGATTGGATTTGGAGTTGGTAGTAGGTATGGTTCTCATACCAG
AATTCTCTTAAAAAAGGACAAATTTGGAATTGCCTTATTTATTTTTAAATCAATGCTTACTAGTTGGT
AGGATTTCCAGGTGAGCAGCAGGTTGATTAAATAATCTTGACAATGAGCAGCTGCCATCTTGGGGGATTTTATT
CTGTGGTTTTTTTAAATGTTTCGTCTTTGATGCTACCATCCAGGGCTTCTTATTGTGACCTTGTAGCCTATTTTGT
TCCTGCTGTTCTCTAACATGGTGCAGTTACGCAGACTGGTTTAGGTACTTCACAACTCACCATTGTCTCTCTGA
CCCCAAGCCTAGTCCCTTTTACATCACCATCTTCTCAGACTTCTTGCTTATTCTTAAATATGTTTTGGTTAATG
ATTGAATTAGGACATCAGCTTAAGCAATTCCTGTAACGGTTTAAACGTTGTTGAAGTTCAAGGCACATAATAAAT

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FIGURE 2128C

TCTCCCTGATGTGTGTGTAAGTATAAACAAAGTAATGTATCAAAGCGTTCACCTTTATAATGAAGTCATTTTCATTG
GGAAGGAAAGCTGCAAAGATTATTGGGGGACTAGTGATTAATAAAATCCTGTAATATTTTTGAAGTGAAAATTG
TACTGAAATTGTACATGATACCTATTAAATGTTTTTGCTTTTTTT

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FIGURE 2129

MALSKGLRLLGRLGAEGDCSVLLEARGRDDCLLFEAGTVATLAPEEKEVIKQYGKLTDAYGCLGELRLKSGGTS
LSFLVLVTGCTSVGRIPDAEIYKITATDFYPLQEEAKEEERLIALKKILSSGVFYFSWPNDGSRFDLTVRTQKQG
DDSSEWGNSSFFWNQLLHVPLRQHQVSCCDWLLKICGVVTIRTIVYASHKQAKACLVSRVSCERTGTRFHTRGVND
DGHVSNFVETEQMIYMDDGVSSFFVQIRGSVPLFWEQPGLOVGSHHRLRLHRLGLEANAPAFDRHMLLKEQYQQVV
VNLLGSRGGEEVLNRAFKKLLWASCHAGDTPMINFDFHQFAKGGKLEKLETLLRPQLKLHWEDFDVFTKGENVSP
RFQKGTLRMNCLDCLDRTNTVQSFIALEVLHLQLKTLGLSSKPIVDRFVESFKAMWSLNGHSLSKVFTGSRALLEG
KAKVGKLDGARSMSRTIQSNFFDGVKQEAIKLLLVGDVYGEVADKGGMLLDSTALLVTPRILKAMTERQSEFT
NFKRIRIAMGTWNVNGGKQFRSNVLRTAELTDWLLDSPQLSGATDSQDDSSPADIFAVGFEEMVELSAGNIVNAS
TTNKKMWGEQLQKAISRSHRYILLTSAQLVGVCYIFVRPHYVPPFIRDVAIDTVKTGMGGKAGNKGAVGIRFQFH
STSFCFICSHLTAGQSQVKERNEDYKEITQKLCFPMGRNVFSDYVFWCGDFNYRIDLTYYEEVFYFVKRQDWKKL
LEFDQLQLQKSSGKIFKDFHEGAINFGPTYKYDVGSAAYDTSKCRTPAWTDRVLWWRKKHPDKTAGELNLLDS
DLDDVDTKVRHTWSPGALQYYGRAELQASDHRPVLAIVEVEVQEVVDVGARERVFQEVSSFQGPLDATVVVNLQSPT
LEEKNEFPEDLRTELMQTLGSYGTIVLVRINQGQMLVTFADSHSALSVDVDGMKVKGRAVKIRPKTKDWLKGRL
EEIIRKRDSMAPVSPTANSCLLEENFDFTSLDYESEGDILEDDEDYLVDENQPGVSDSELGGDDLSDVPGPTAL
APPSKSPALTKKKQHPTYKDDADLVELKRELEAVGEFRHRSPSRSLSVNRP RP PPQPPQRP PPPTGLMVKKSASD
ASISSGTHGQYSILQTARLLPGAPQQPPKARTGISKPYNVKQIKTTNAQEAEAAIRCLLEARGGASEEALS AVAP
RDLEASSEPEPTPGAAPKPTPQAPPLPRRPPRPVPAIKKPTLRRTGKPLSPEEQFEQQT VHF TIGPPETSVEAP
PVVTAPRVPPVPKPRTFQPGKAAERPSHRKPASDEAPPGAGASVPPPLEAPPLVPKVP RRKKSAPAAFHLQVLQ
SNSQLLQGLTYNSSDSPSGHPPAAGTVFPQGDFLSTSSATSPDSDGTAMKPEAAPLLGDYQDPFWNLLHHPKLL
NNTWLSKSSDPLDSGTRSPKRDPIDPVSAGASAAKAEPPDHEHKT LGHWVTISDQEKRTALQVFDPLAKT

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FIGURE 2130

AGGCAGGGCGGGCGGGCGCTCTAAGGGTTCTGCTCTGACTCCAGGTTGGGACAGCGTCTTCGCTGCTGCTGGATA
GTCGTGTTTTTCGGGGATCGAGGATACTCACCAGAAACCGAAAATGCCGAAACCAATCAATGTCCGAGTTACCACC
ATGGATGCAGAGCTGGAGTTTGCAATCCAGCCAAATACAACCTGAAAAACAGCTTTTTGATCAGGTGGTAAAGACT
ATCGGCCTCCGGGAAGTGTGGTACTTTGGCCTCCACTATGTGGATAATAAAGGATTTCTACCTGGCTGAAGCTG
GATAAGAAGGTGTCTGCCCAGGAGGTCAGGAAGGAGAATCCCCTCCAGTTCAAGTTCCGGGCCAAGTTCTACCCCT
GAAGATGTGGCTGAGGAGCTCATCCAGGACATCACCAGAAACTTTTCTTCTCCAAGTGAAGGAAGGAATCCTT
AGCGATGAGATCTACTGCCCCCTGAGACTGCCGTGCTCTTGGGGTCTACGCTGTGCAGGCCAAGTTTGGGGAC
TACAACAAAGAAGTGCACAAGTCTGGGTACCTCAGCTCTGAGCGGCTGATCCCTCAAAGAGTGATGGACCAGCAC
AAACTTACCAGGGACAGTGGGAGGACCGGATCCAGGTGTGGCATGCGGAACACCGTGGGATGCTCAAAGATAAT
GCTATGTTGGAATACCTGAAGATTGCTCAGGACCTGGAAATGTATGGAATCAACTATTTTCGAGATAAAAAACAAG
AAAGGAACAGACCTTTGGCTTGGAGTTGATGCCCTTGGACTGAATATTTATGAGAAAGATGATAAGTTAACCCCA
AAGATTGGCTTTTCTTGGAGTGAAATCAGGAACATCTCTTTCAATGACAAAAAGTTTGTCAATTAACCCATCGAC
AAGAAGGCACCTGACTTTGTGTTTTATGCCCCACGTCTGAGAATCAACAAGCGGATCCTGCAGCTCTGCATGGGC
AACCATGAGTTGTATATGCGCCGCAGGAAGCCTGACACCATCGAGGTGCAGCAGATGAAGGCCAGGCCCGGGAG
GAGAAGCATCAGAAGCAGCTGGAGCGGCAACAGCTGGAAACAGAGAAGAAAAGGAGAGAAAACCGTGGAGAGAGAG
AAAGAGCAGATGATGCGCGAGAAGGAGGAGTTGATGCTGCGGCTGCAGGACTATGAGGAGAAGACAAAGAAGGCA
GAGAGAGAGCTCTCGGAGCAGATTGAGAGGGCCCTGCAGCTGGAGGAGGAGAGGAAGCGGGCACAGGAGGAGGCC
GAGCGCCTAGAGGCTGACCGTATGGCTGCACTGCGGGCTAAGGAGGAGCTGGAGAGACAGGCGGTGGATCAGATA
AAGAGCCAGGAGCAGCTGGCTGCGGAGCTTGCAAGAATACACTGCCAAGATTGCCCTCCTGGAAGAGGCGCGGAGG
CGCAAGGAGGATGAAGTTGAAGAGTGGCAGCACAGGGCCAAAGAAGCCAGGATGACCTGGTGAAGACCAAGGAG
GAGCTGCACCTGGTGATGACAGCACCCCCCGCCCCACCACCCCCGTGTACGAGCCGGTGAGCTACCATGTCCAG
GAGAGCTTGCAAGGATGAGGGCGCAGAGCCACGGGCTACAGCGCGGAGCTGTCTAGTGAGGGCATCCGGGATGAC
CGCAATGAGGAGAAGCGCATCACTGAGGCAGAGAAGAACGAGCGTGTGCAGCGGCAGCTGCTGACGCTGAGCAGC
GAGCTGTCCCAGGCCCGAGATGAGAATAAGAGGACCCACAATGACATCATCCACAACGAGAACATGAGGCAAGGC
CGGGACAAGTACAAGACGCTGCGGCAGATCCGGCAGGGCAACACCAAGCAGCGCATCGACGAGTTGAGAGCCCTG
TAACAGCCAGGCCAGGACCAAGGGCAGAGGGGTGCTCATAGCGGGCGCTGCCAGCCCCGCCACGCTTGTGTCTTT
AGTGCTCCAAGTCTAGGAACTCCCTCAGATCCCAGTTCCTTTAGAAAGCAGTTACCCAACAGAAACATTCTGGGC
TGGGAACCAGGGAGGCGCCCTGGTTTGTGTTTTCCCAAGTTGTAATAGTGCCAAGCAGGCCTGATTCTCGCGATTAT
TCTCGAATCACCTCCTGTGTTGTGCTGGGAGCAGGACTGATTGAATTACGGAAAATGCCTGTAAAGTCTGAGTAA
GAACTTCATGCTGGCCTGTGTGATACAAGAGTCAGCATCATTAAAGGAAACGTGGCAGGACTTCCATCTGTGCC
ATACTTGTCTGTATTGCAATGAGCTCAAATTGATTTTTTAATTTCTATGAAGGATCCATCTTTGTATATTTAC
ATGCTTAGAGGGGTGAAAATTATTTTGAAATTGAGTCTGAAGCACTCTCGCACACACAGTGATTCCCTCCTCCC
GTCACCTCACGCAGCTGGCAGAGAGCACAGTGATCACCAGCGTGAGTGGTGGAGGAGGACACTTGGATTTTTTTT
TTTGTTTTTTTTTTTTTTGCTTAACAGTTTTAGAAATACATTGTACTTATACACCTTATTAATGATCAGCTATATA
CTATTTATATACAAGTGATAATACAGATTTGTAACATTAGTTTTAAAAAGGAAAGTTTTGTTCTGTATATTTTG
TTACCTTTTACAGAATAAAAGAATTACATATGAAAAACCCCTCTAAACCATGGCACTTGATGTGATGTGGCAGGAG
GGCAGTGGTGGAGCTGGACCTGCCTGCTGCAGTCACGTGTAAACAGGATTATATTAGTGTGTTTTATGCATGTAAT
GGACTATGCACACTTTTAATTTTGTGAGATTCACACATGCCACTATGAGCTTTCAGACTCCAGCTGTGAAGAGAC
TCTGTTTGTCTGTGTTTGTGTTTGTGTTTGCAGTCTCTCTGCCATGGCCTTGGCAGGCTGCTGGAAGGCAGCTTGTG
GAGGCCGTTGGTTCCGCCCACTCATTCCTTCTCGTGCAGTCTTTCTCCTTCACAGCTAAGATGCCATGTGCAGG
TGGATTCCATGCCGCAGACATGAAATAAAAGCTTTGCAAAGGCA

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FIGURE 2131

ATCTTCCGGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCTGACATATGTTCTCTAGGCCT
TTTAGAAAACATGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAAACTGGGAGTCTA
CGATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAA
TGTGCGTATTGAGCACATTACGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAAAATGATCAGAA
AAAGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTTCAGCTAAAGCGCCAGCCTGCTCCACCCAGAGAAACACACTT
TGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATTAATTCATGGCATAATAGGTGTTAAA
AAGAAAAATAAA

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FIGURE 2132

GGCAGCGCAGGGCAGACGGCGGCAGGAGAAGCAAGATGAATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGCGG
CGCGGACCATCATAGGTTCCCTTCAATGGTGCCTTAGCTGCTGTTCCCTGTCCAGGACCTGGGCTCCACTGTCATCA
AAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTCATCTTTGGACATGTCTTGGCAGCAG
GCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTGCAGGAATTCCTACTCTGTTCCAGCATGGAGCTGCC
AGATGATCTGTGGGTGAGGCCTAAAAGCTGTGTGCCTTGCAAGTCCAGTCAATAGGGATAGGAGACTCCAGCATTG
TGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCTCACTTGGCTTACTTGAGAACAGGAGTAAAGATAGGTG
AGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTTCAAACTGTCATATGGGTATTACAG
CTGAAAATGTAGCCAAAAAATGGCAAGTGAGTAGAGAAGATCAGGACAAGGTTGCAGTTCTGTCCCAGAACAGGA
CAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAGAGATTGTACCAGTTTTTGGTGTCAACTAGAAAAGGTCTTA
TTGAAGTTAAAACAGATGAGTTTCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTC
TTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAGGAATAAATGATGGTGCTGCAGCTGTCGTTCTTA
TGAAGAAGTCAGAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTTCTGGTCCCAAGTGGGTGTGG
AGCCTTCCATTATGGGAATAGGACCAATTCCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGAAG
ATGTTGACATATTTGAAATCAATGAAGCCTTTGCAGCTGCTCTGCTGCAATAGTTAAAGAACTTGGATTAAACC
CAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTTGGAGCATCTGGCTGTGCAATTCTTG
TGACCCTGTTACACACACTGGAGAGAATGGGCAGAAGTCGTGGTGTGTCAGCCCTGTGCATTGGGGGTGGGATGG
GAATAGCAATGTGTGTTTCAAGAGAGAATGAATTGCTTAAACTTTGAACAACCTCAATTTCTTTTAACTAATAAA
GTACTAGGTTGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAACCATTTCTTACATCACAAAAACCCAA
GTTTACAGCTTGTTACTTTTACTTTAATGTGTAATACTCAACTCAAGGTACAAGACAATTGCATTTAACATTGTTAT
AAATAAAAGGAACATCAGATCAATCATT

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FIGURE 2133

MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPVRQASV
GAGIPYSVPAWSCQMICGSLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEMPLTDSILCDG
LTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTEAQAAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHG
SNIEAMSKLKPYFLTDGTGTVPANASGINDGAAAVLMKKSEADKRGLTPLARIVSWSQVGVEPSIMGIGPIPA
IKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGCRILVTLHTLERMGR
SRGVAALCIGGGMGIAMCVQRE

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FIGURE 2134

ACGTGTATCGCTGCCGTCAAGATGGAGGGGCCCTTTGTCCGTGTTCCGGTGACCGCAGCACTGGGGAAACGATCCGC
TCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGTATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACACTTTCAGTG
GTTATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATTAGTCAAACAGAAAAATTCATCCCACATCAGTTATT
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCGTTATATCAATGAAAACCTAATTGTTAACACAGATGAACTG
GGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGAATAAATGGTGATTTCTTT
GCTAACATGGTAGTAGATGCTGTACTTGCTATTAAATACACAGACATAAGAGGCCAGCCAGCTATCCAGTCAAC
TCTGTTAATATTTTGAAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTGGTGGGATCCCAGGGCATGCCCAAGAGAATCGTAAATGCAAAAATTGCTTGCCTTGACTTCAGCCTGCAAAAA
ACAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA
GATATCACCAAGGAGAGAATTCAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCACTGGTGGAATTGAT
GATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTAAAAAGGGACCTTAAACGC
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTTTCATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACTTTGTGTAGTGAAGAGAGTTTGGAGTCAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAAACCTATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGCCCAGGTTAACCCAGAACGTAAAAATCTAAATGGATTGGTCTTGATTGAGCAATGGT
AAACCTCGAGACAACAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAAGTAAAGATGATAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGATCTGATGTTTCTTTTATTATAACAATGTTAAA
TGCAATTGCTCTTGACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAAACTTGGGTTTTTGTGA
TGTAGGAAATGGTTTCCATCTGTACTTTGGTCTCTGATTTACATATTGCAACCTAGTACTTTATTAGTTTAAA
AAGAAATTGAGGTTGTTCAAAGTTTAAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCCACCCCA
ATGCACAGGGCTGCAACACCACGACTTCTGCCCATTCTCTCCAGTGTGTGTAAACAGGGTCACAAGAATTC

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FIGURE 2136

MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTNEMIVTKNGRRMFPVL
KVNVSGLDPNAMYSEFLDFVAADNHRWKYVNGEWVPGGKPEPQAPSCVYIHPDSPNFGAHWMKAPVSFSKVKLTN
KLNGGGQIMLNSLHKYEPRIHIVRVGGPQRMITSHCFPETQFIAVTAYQNEEITALKIKYNPFAKAFDAKERSD
HKEMMEEPGDSQQPGYSQWGWLLPGTSTLCPPANPHPQFGGALSLPSTHSCDRYPTLRSHRSPYPSPYAHNRNS
PTYSDNSPACLSMLQSHDNWSSLGMPAHPMSMLPVSHNASPPTSSSQYPSLWSVSNGAVTPGSQAAAVSNGLGAQF
FRGSPAHYTPLTHPVSAPSSSGSPLYEGAAAATDIVDSQYDAAAQGRLIASWTPVSPPSM

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FIGURE 2137

CGCAGCCGTGCGATGTTGTCCTCTACAGCCATGTATTTCGGCTCCTGGCAGAGACTTGGGGATGGAACCGCACAGA
GCCGCGGGCCCTTTGCAGCTGCGATTTTCGCCCTACGTTTTCAACGGAGGTACTATACTGGCAATTGCTGGAGAA
GATTTTGCAATTGTTGCTTCTGATACTCGATTGAGTGAAGGGTTTTCAATTCATACGCGGGATAGCCCCAAATGT
TACAAATTAAACAGACAAAACAGTCATTGGATGCAGCGGTTTTTCATGGAGACTGTCCTTACGCTGACAAAGATTATT
GAAGCAAGACTAAAGATGTATAAGCATTCCAATAATAAGGCCATGACTACGGGGGCAATTGCTGCAATGCTGTCT
ACAATCCTGTATTCAAGGCGCTTCTTTCCATACTATGTTTACAACATCATCGGTGGACTTGATGAAGAAGGAAAG
GGGGCTGTATACAGCTTTGATCCAGTAGGGTCTTACCAGAGAGACTCCTTCAAGGCTGGAGGCTCAGCAAGTGCC
ATGCTACAGCCCCTGCTTGACAACCAGGTTGGTTTTAAGAACATGCAGAATGTGGAGCATGTTCCGCTGTCCTTG
GACAGAGCCATGCGGCTGGTGAAAGATGTCTTCATTTCTGCGGCTGAGAGAGATGTGTACACTGGGGACGCACTC
CGGATCTGCATAGTGACCAAAGAGGGCATCAGGGAGGAACTGTTTCCTTAAGGAAGGACTTGACTGTGTGCTCT
TATCACCAATCAGTTCAGACCTGGTTGATTTTGTACTTTGGAAGTGTACCTTGGATGGTTTTGTTTATTAAAA

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FIGURE 2138

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEGFSIHTRDSPKCYKLT
DKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVY
SFDPVGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDAIRICI
VTKEGIREETVSLRKD

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FIGURE 2139

GCTCCCAGCCGGGCCCCCTCAGCGGTGCGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCCGCCCGCGGGGGC
CGAGTCGCGAAGCGCGCCTGCGACCCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCC
TGCGAAGGTGGCGGCGCTGCTGCTCGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAAGCATTGCTGGTATTTCTGA
AGGACTCTATCCAACCTATTATATATGCGGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGGCCCT
CTCCATACAGTGGCTGTGGTACTTCTGGTTCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTT
CATCCGGAGGCGCATGTACCCCCCGCGCTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCC
AAATCCCGGCCCAGGAGCCCAGCAGCCGGGGCCACCCTATTACACCGACCCAGGAGGACCGGGGATGAACCTGT
CGGGAATTCCATGGCAATGGCTTTCCAGGTCCCACCCAACTCACCCCAGGGGAGTGTGGCCTGCCCGCCCCCTCC
AGCCTACTGCAACACGCCTCCGCCCCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGA
GGAGAGACAGGAGAGGGCCCTTCCCTGGCCTTTCTGTCTTCGTTGATGTTCACTTCCAGGAACGGTCTCGTGGGC
TGCTAAGGGCAGTTCTCTGATATCCTACAGCAAGCACAGCTCTCTTTCAGGCTTTCATGGAGTACAATATAT
GAACTCACACTTTTGTCTCCTCTGTTGCTTCTGTTTCTGACGCACTCTGTGCTCTCACATGGTAGTGTGGTGACAG
TCCCCGAGGGCTGACGTCTTACGGTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGCT
GGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCCAGGCAAGCATCCTTCTGCCCGGGTATTAATAGG
AAGCCCCACGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTCTCTGCTCCAGC
CTGTCTCTCGTACGCTTCTCTTCCAGAAGCTGTTGGAGAGACATTTCAGGAGAGAGCAAGCCCTTGTCTATGT
TTCTGTCTCTGTTTCATATCCTAAAGATAGACTTCTCCTGCACCGCCAGGGAAGGGTAGCACGTGCAGCTCTCACC
GCAGGATGGGGCCTAGAATCAGGCTTGCTTGGAGGCCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTA
AATTCATGGGAAATCACTTCTGCCCCAACTGAGACATTGCATTTTGTGAGCTCTTGGTCTGATTTGGAGAAAG
GACTGTTACCCATTTTTTGGTGTGTTTATGGAAGTGCATGTAGAGCATCCTGCCCTTTGAAATCAGACTGGGTGT
GTGTCTTCCCTGGACATCACTGCCTCTCCAGGTCACTCTCAGGCCCGGGGTCTCCTTCCCTCAGGCAGCTCCAG
TGGTGGGTTCTGAAGGTGCTTTCAAACAGGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGA
GAGACCAGCTGAGGCGTCTCTCTCTGAGGTTGTGTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGA
GCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCAACTGCACTGACCATGTTGTCTATAATTAGAATAAAGAAGAA
GTGGTTGGAAATGCACATTCTGGATAGGAATCACAGCTCACCCAGGATCTCACAGGTAGTCTCCTGAGTAGTT
GACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTGATGTGTGAACGCTGACCTGTCTGTGTGCTA
AGAGCTATGCAGCTTAGCTGAGGCGCCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGGTGCTTA
TTTTTTAATGAACATAATCAGAGACTCTTGAGAAATTGTTACTCATTGAACGGAGCATCAAGACATCTCATGGAA
ATGGATACGGAGTGATTTGGTGTCCATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCTCCTGGGGAATTTT
GTGGGAGACACTTGGGAACAAAACAGACACCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACCAGTGTCTCT
GACCACCCTGGTGTGACTGCTGACTGCCAGCGTGGTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACA
AAGCACAATGTTCACTGTTTACAACCAAGACAACCTGCGTGGGTCCAAACACTCCTCTTCTCCAGGTCATTTGTI
TTGCATTTTTAATGTCTTTATTTTTTGTAAATGAAAAAGCACACTAAGCTGCCCCTGGAATCGGGTGCAGCTGAAT
AGGCACCCAAAAGTCCGTGACTAAATTTCTGTTTGTCTTTTTTGATAGCAAATAATGTTAAGAGACAGTGATGGCTA
GGGCTCAACAATTTTGTATTCCCATGTTTGTGTGAGACAGAGTTTGTTTTCCCTTGAACCTGGTTAGAAATTGTGC
TACTGTGAACGCTGATCCTGCATATGGAAGTCCCACTTCGGTGACATTTCTGGCCATTCTTGTTCCTATTGTGT
GGATGGTGGGTTGTGCCCACTTCTGGAGTGAGACAGCTCCTGGTGTGTAGAATTCGGGAGCGTCTGTGGTTCA
GAGTAAACTTGAAGCAGATCTCTGCATGCTTTTCTCTGCAACAATTGGCTCATTTCTCTTTTTTGTCTCTTTT
GATAGGATCCTGTTTCTATGTGTGCAAAATAAAAATAAATTTGGGCAA

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FIGURE 2140

ATGGCAGGGGAGTCACAAAGGAGAAGCACTCAGCCTGCCGAGAGGTCCCAGGACTTTCCTGGAGGATCAGTCCCC
AAACTGACTGTGACAGGGAGCTATACCCAGATAACAGCAGAGGCCAGAAATAAGAAAGAGTCTGTAGATGGCAAG
TCAATGGGAAATCATTCCAGGAAGGTAGGGAAAGATGGAATTCTGGAGAGCATTGGACCTCAGATTGGGAGTCTG
AACGTCTTTCCATATGCATCAGGAAGCCATGGAAAATTCACAGACTGGAGTGACTTTGGCAAAGGAACAACATAT
AACGCACTCTCCCCTGAACTCTACACAACATATTTGTCACCAAGACCCTACTTCTGACCTCCCTGTTCTTATGC
ATTCGAACAGCATACCCCGATTCCGCTACGACCAACTCATACACCTCCTATGA

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FIGURE 2141

CTAAATACTACCGTATGACCCACCATAATTACCCCCATACTCCTTACACTATTCCTCATCACCCAACTAAAAATA
TTAAATACAAATTACCACCTACCTCCCTCACCAAAGCCCATAAAAATAAAAACTATAACAAACCCTGAGAACCA
AAATGAACGAAAATCTGTTCACTTCATTTCATTGCCCCACAATCCTAGGCCTACCCGCCGCAGTACTGATCATTC
TATTTCCCCCTCTATTGATCCCCACCTCCAAATATCTCATCAACAACCGACTAATTACCACCCAACAATGACTAA
TCCAACTAACCTCAAAACAAATGATAGCCATACACAACACTAAGGGACGAACCTGATCTCTTATACTAGTATCCT
TAATCATTTTTTATTGCCACAATAACCTCCTCGGACTCCTGCCTCACTCATTTACACCAACCACCCAACCTATCTA
TAAACCTAGCCATGGCCATCCCCCTTATGAGCGGGCGCAGTGATTATAGGCTTTTCGCTCTAAGATTAAAAATGCCC
TAGCCCACTTCTTACCACAAGGCACACCTACACCCCTTATCCCTATACTAGTTATTATCGAAACCATCAGCCTAC
TCATTCAACCAATAGCCCTGGCCGTACGCCTAACCGCTAACATTACTGCAGGCCACCTACTCATGCACCTAATTG
GAAGCGCCACACTAGCAATATCAACTATTAACCTTCCCTCTACACTTATCATCTTCACAATTCTAATTCTACTGA
CTATCCTAGAAATCGCTGTGCGCTTAATCCAAGCCTACGTTTTTACACTTCTAGTAAGCCTCTACCTGCACGACA
ACACATAATGACCCACCAATCACATGCCTATCATATAGTAAAACCCAGCCCATGGCCCCTAACAGGGGCCCTCTC
AGCCCTCCTAATGACCTCCGGCCTAGCCATGTGATTTCACTTCCACTCCACAACCCCTCTCATACTAGGCCTACT
AACCAACACACTAACCATATACCAATGATGGCGCGATGTAACACGAGAAAGCACATACCAAGGCCACCACACACC
ACCTGTCCAGAAAGGCCTTCGATACGGGATAATCCTATTTATTACCTCAGAAGTTTTTTTCTTCGCAGGATTTTT
CTGAGCCTTTTTACCACTCCAGCCTAGTCCCACCCCCCACTAGGGGGACACTGGCCCCCAACAGGCATCACCCC
GCTAAATCCCCTAGAAGTCCCCTCCTAAACACATCCGTATTACTCGCATCAGGGGTATCAATCACCTGAGCTCA
CCATAGTCTAATAGTCTATTTTACCCTCCTACAAGCCTCAGAGTACTTCGAG

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FIGURE 2142

GTGGGAACATCCAGTTGCGGGAAAACAAGCTTAACACGCCCCTGATTCTACATTATGCTCCTACCTCCCGGCAG
CCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC
CATAACCTACGTCACGGCAGCCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCG
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCT
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCA
GCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC
ACTTGGACCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCGGCAGCCTCT
CCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCGGGCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCA
AGCCCCGCTTTTGACTTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCAC
AGGCCAGCCTCTGCCTCACAGCGGACTCTC

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FIGURE 2143

MLLPFGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPTPASWWPLQAQPVPPVGLYNPNICLTADSSRPASASQWTLQTQMVSHCGILRRS
SCLSAASPGPAPPASQWPLSAQPSSCLPAAFPSPAFDFWWPLQASTRPSLLPPEGLHRPSICLTADSPRPASSRL
TAASPVQSSCLSATSAGPATACQWPL

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FIGURE 2144

CTCTCTCACACACACCCCCGCTTGGGCCTCCTCTCTCTCTCCGGCTCCATTTTCTCCGCCGCCGGGGGCCGGGGT
CTCCTGTGGGGGGGCCAGCCGGTATCCAGGTCTCCCTTCAGTGCCGGGGTGAACCCCCGGGGGAGCCGGGAGCC
GGGGGCAGACGGGCGGGGGTGGGGCGGAGGGAGCAGCGCCCCAGCGAGTTTGGGGGGAGAAGTAACCAGGCGG
GGGGAGGGGCGGAGCAGGGAGGGGGCCTCAGGGCCCCCCCCAGCTATGGACGAACGGCTACTGGGGCCGCCCC
TCCAGGCGGGGGCCGGGGGGGCTGGGATTGGTGAGTGGGGAGCCTGGGGGGCCTGGCGAGCCTCCCGGTGGCGG
AGACCCCGGTGGGGGTAGCGGGGGGGTCCCGGAGGCCGAGGGAAGCAAGACATCGGGGACATTCTGCAGCAGAT
AATGACCATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAACACGCCCTAAACTGCCACCGAATGAAGCC
TGCTCTCTTTAGCGTCCTGTGTGAAATCAAGGAGAAAAGTGGCCTCAGCATTTCGGAGCTCCCAGGAGGAGGAGCC
GGTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAGGGTGTGGCTGGGCCCCGAGAAAGGGGGCGG
CTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTGTCCCTGACAACTCCATCGAACACTCGGA
CTATCGCAGCAAACTTGCCCAGATCCGTCACATATACCACTCGGAGCTGGAGAAGTATGAGCAGGCATGTAATGA
GTTACAGACCCATGTGATGAACCTGCTGAGGGAGCAGAGCCGCACCAGGCCCGTGGCCCCAAAGAGATGGAACG
CATGGTGAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAGCTGAAGCAGAGCACCTGCGAGGCTGTGAT
GATCCTGCGCTCCCGTTTCCTGGATGCCAGACGAAAGCGCCGTAACCTTCAGCAAACAGGCCACTGAGGTCCTAAA
TGAGTATTTCTACTCCCACCTGAGTAACCCATATCCTAGTGAGGAGGCCAAGGAGGAGCTTGCCAAGAAGTGTGG
CATCACCGTGTCTCAGGTCTCCAAGTGGTTTGGCAACAAGAGGATTTCGCTATAAGAAAAACATCGGAAAGTTCCA
AGAGGAGGCAACATCTATGCTGTCAAGACCGCCGTGTGAGTCACCCAGGGGGGCCACAGCCGCACCAGCTCCCC
GACACCCCTTCCTCTGCAGGTGGATCCCACTGTACCCAGCTGACTGTTTTGCACACTTCCTGCTTTTGTTC
CACTTCCTATCTAGGCAGGATCATAGCAGAGAGGGGGCCTTTTGGGGTGAGAGGGACCGAGCTGAGATAGGCTGG
AGATGTCAGGGGACAGAGGCCATTCCAGTGATCTTAGTTCTGCCTTTCTTCCCACGGGTGGCCAAGGAACAGCCT
GCTCTTCTGTGTGTGGAATGTTATTTTGTGGATAATTGGAGTATAGTAGCATGTCCCCAC

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FIGURE 2145

GAGTAGAGTAGGGCAGGAGAACTGGGCCAGGCTGCACTTAGCTCAAGGGGCCTCGAGGACTCTCTGCGTCTCTG
GAGACAAGGGCACTACACGCACTTCAGAATGAAGAGTTGCGGGAGCATGCTGGGGCTCTGGGGGCAGCGGCTCCC
CGCGGCGTGGGTCTGCTTCTGTTGCCCTTTCCTGCCGCTGCTGCTGCTTGACGCCCCCGCGCCCCACCGCGAGTC
CTACAAGCCGGTCAATCGTGGTGACATGGGCTCTTCGACAGCTCGTACAGCTTCCGCCACCTGCTGGAATACATCAA
TGAGACACACCCCGGGACTGTGGTGACAGTGCTCGATCTCTTCGATGGGAGAGAGAGCTTGCGACCCCTGTGGGA
ACAGGTGCAAGGGTTCCGAGAGGCTGTGGTCCCCATCATGGCAAAGGCCCTCAAGGGGTGCATCTCATCTGCTA
CTCGCAGGGGGGCCCTTGTGTGCCGGGCTCTGCTTCTGTCTATGGATGATCACAACGTGGATTCTTTCATCTCCCT
CTCCTCTCCACAGATGGGACAGTATGGAGACACGGACTACTTGAAGTGGCTGTTCCCCACCTCCATGCGGTCTAA
CCTCTATCGGATCTGCTATAGCCCCCTGGGGCCAGGAATTCTCCATCTGCAACTACTGGCATGATCCCCACCACGA
TGACTTGTAACCTCAATGCCAGCAGCTTCTGGCCCTGATCAATGGGGAAAGAGACCATCCCAATGCCACAGTATG
GCGGAAGAACTTTCTGCGTGTGGGCCACCTGGTGTGATTGGGGGCCCTGATGATGGTGTATTACTCCCTGGCA
GTCCAGCTTCTTTGGTTTCTATGATGCAAATGAGACCGTCTCTGGAGATGGAGGAGCAACTGGTTTATCTGCGGGA
TTCTTTTGGGTTGAAGACTCTATTGGCCCGGGGGGCCATAGTGAGGTGTCCAATGGCCGGTATCTCCCACACAGC
CTGGCACTCCAACCGTACCCTTTATGAGACCTGCATTGAACCTTGGCTCTCCTGAGGATATATTCAGGGGTCCCC
AGGAACTCCTCGGTCCAGAGACCAAGTGGTGGCCTTGGAAGCAGATGTCAGGCTTGGTGTGCCTGTGACCACC
TCATTGCTCCCATATTATCCCCCATTTTTAGTAGAGACGGGGTTTTAGTAGAGACTTGGCCTCCAGAACCCCT
TCCCTCTGCTCCTCCATGAATGACAATTCCAGGCCTCCCTACCTCATGTCTCTCATTGGGGGATTGCTCCGTG
CTGTCCCTTTCTCTCAAGGCCGAAGTTGGGAAGTGAGAAACCATGTTTTTAACCTGTGGCTGCTTTTGCTGCTGC
TGCTCCTCCGTATCTGGCTGTATGGGTGGAGAACCCACCCCTGCCCACCACAGGGGTCTCCTTCCAGGCCACTC
AGGACATTTTATGCTTCTCTCCTCCCATGTTCCCTTTTTTCTCTAAAGTCCCTGACATCAGCCCTCCCAACTC
CTAAGAGGGACTACCCATGAGAGTGGGGTTCTGAGGCTCCCTATGGGGACAGTTCCGTTCTTGAAGTGTGAGT
TTGGGGAATATCTGTGGCCTATGAGGCCATCTCAGGTTTGGGGATCCCCAGTCCCTATGATCAGTGTGGAGT
ACCCCTTGGGAGAGCCTAGTTTCTTTGAGGCCCCAGGCCCTCTTTTAACCTTTGAATAGGTGTTATCCCTG
TATTTATGGAATAAAGTTCCATTTCTC

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FIGURE 2146A

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC
TGGGCATCCAGCTTCTTCACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCTCTTCTGTGGTTTCATCTG
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCTCTG
AGAAACCCATCTCGTAATAATGTCCCCTGCTCCCCAAAGGTGGACTTCACCCTTAGCTCAGAAAGAGACTTCGCA
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGTC
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC
TTCTCCTCTCGCCGGGGGCACCTCTTTTTTGACAGACGGACAGCCCATTTACAACCCTGGCCAGCGGGTTCCGGTAC
CGGGTCTTTGCTCTGGATCAGAAGATGCGCCGAGCACTGACACCATCACAGTCATGGTGGAGAACTCTCACGGC
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA
GAGCCAGGGACCTGGAAGATCTCAGCCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG
AAGAAATATGTCTTCCCAACTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTTCGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTCTCCAGGTGGGAGATGGAGGAGGCAGAGCTCACA
TCCTGGTATTTTGTGTCTCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCCTGGGGCCCCC
TTCTGCTGCAGGCCCTTGGTCCGTGAGATGTGAGGCTCCCGAGCTTCTGGCATTCCTGTCAAAGTTTCTGCCACG
GTGTCTTCTCCTGGGTCTGTTCTCTGAAGTCCAGGACATTGAGCAAAACACAGACGGGAGCGGCCAAGTCAGCATT
CCAATAATTATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGCCCGGGTTTCTGTCTATTGAGCGGCCGATTCTCGACCTCCT
CGTGTGGGGACACTCTGAACCTGAACCTTGCAGCCGTGGGCAGTGGGGCCACCTTTTCTCATTACTACTACATG
ATCCTATCCCGAGGGCAGATCGTGTTCATGAATCGAGAGCCCAAGAGGACCCTGACCTCGGTCTCGGTGTTTGTG
GACCATCACCTGGCACCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACTCCCTG
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC
GGGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG
TATGCTGCAGGCAGCAAGTCCCAAGCCCTCAACATGGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC
GGCTGTGGTCTTGGGGTGGGGACAGTGCCCTTCAGGTGTTCCAGGCAGCGGGCCTGGCCTTTTCTGATGGAGAC
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGGAAGAGAAACGTGAACCTTC
CAAAAGGCGATTAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA
CGTCTGCCCATGATGCGTTCCTGCGAGCAGCGGGCAGCCCGCTGCAGCAGCCGGACTGCCGGGAGCCCTTCCTG
TCCTGTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCCTCCAACGAGCCCTG
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGGCAGCTTCTTCCCAGAGAAGTGGCTC
TGGAGAGTGGAAACAGTGGACCGCTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC
CATGGCCTGAGCCTGTCCAAAACCAAAGGCCTATGTGTGGCCACCCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC
CACCTGCACCTCCGCCTGCCCATGTCTGTCCGCCGCTTTGAGCAGCTGGAGCTGCGGCTGTCTCTATAACTAC
CTGGATAAAAAACCTGACTGTGAGCGTCCACGTGTCCCAAGTGGAGGGCTGTGCCTGGCTGGGGGCGGAGGGCTG
GCCCAGCAGGTGCTGGTGCCTGCGGGCTCTGCCCGCCTGTTGCCCTTCTGTGGTGGCCACGGCAGCCACCGCT
GTGTCTCTGAAGGTGGTGGCTCGAGGGTCTTTCGAATTCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATT
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACTCAACCCCTTGACCACCGAGGCCGACCTTG
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGGACTTTAACAGCTACGTAGGGTTACAGCCTCA
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACACAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGA
GGCTGTGGGGAGCAAACCATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG
TGGAGCACACTGCCTCCCGAGACCAAGGACCACGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG
TTTCGGAAGGCGGATGGTTCCTATGCGGCTTGGTTGTACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG
AAGGTCTGAGTTTGGCCCAGGAGCAGGTAGGAGGCTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG
TCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTTGGTG
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGAT
GAGGGTGCAGAGCCATTGAAGCAGAGAGTGGAAGCCTCCATCTCAAAGGCAAGCTCATTTTTTGGGGGAGAAAGCA

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FIGURE 2146B

AGTGCTGGGCTCCTGGGTGCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCTGCGGAC
CTGCGGGGTGTTGCCACAACAACCTCATGGCAATGGCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC
ACTGGTTCTCAGAGCAATGCCGTGTGCCCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCA
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC
CAGGCTGCGGCCCTGGCTCACCCGTCAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC
CTGGATGCCCTGTCTGCCTACTGGATTGCCTCCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC
ACAGGCCGGAATGGGTTCAAGTCCCACGCGCTGCAGCTGAACAACCGCCAGATTTCGCGGCCTGGAGGAGGAGCTG
CAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCCCTGAAGGTCCTTCGTACC
TACAATGTCTTGGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGCGAG
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGAGGGTTCGGAGGAACCGCCGCAGGAGGGAGGCGCCCAAGGTG
GTGGAGGAGCAGGAGTCCAGGGTGCCTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG
GCCATCGCGGACGTCACCCCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGCCCCACGTCTCTGCTGTATTTGACTCGGTCCCCACCTCCCGG
GAGTGCCTGGGCTTTGAGGCTGTGCAGGAAGTGCCGGTGGGGCTGGTGACCGCGCCAGCGCAACCCCTGTACGAC
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGT
TCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGAC
GAGGATGGCTACAGGATGAAGTTTGCTGCTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCCAAGTCCTGCACTTCACCAAGGATGTCAAG
GCCGCTGCTAATCAGATGCGCAACTTCCTGGTTCGAGCCTCCTGCCGCCCTTCGCTTGGAACCTGGGAAAGAATAT
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCAAGTACCTGCTGGACTCGAATAGCTGG
ATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTC
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTGAGGGCTGCCCTCCCACCTCCGCTGGGAGGAACCTGAACCT
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT
TTTGGCAGCAAAGTGTCAGTGTGGC

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FIGURE 2147

TGTGGCCACCCAGTTTCAGCTCCGGGTGTTCCGCGAGTTCCACCTGCACCTCCGCCTGCCCCATGTCTGTCCGCCG
CTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTACCTGGATAAAAACCTGACTGTGAGCGTCCACGTGTC
CCCAGTGGAGGGGCTGTGCCTGGCTGGGGGCGGAGGGCTGGCCCAGCAGGTGCTGGTGCCTGCGGGCTCTGCCCG
GCCTGTTGCCTTCTGTGGTGGCCACGGCAGCCACCGCTGTGTCTCTGAAGGTGGTGGCTCGAGGGTCCCTTCGA
ATTCCCTGTGGGAGATGCGGTGTCCAAGGTTCTGCAGATTGAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGT
CTATGAACTCAACCCCTTGGACCACCGAGGCCGACCTTGAAATACCTGGCAACTCTGATCCCAATATGATCCC
TGATGGGGACTTTAACAGCTACGTCAGGGTTACAGCCTCAGATCCATTGGACACTTTAGGCTCTGAGGGGGCCTT
GTCACCAGGAGGCGTGGCCTCCCTCTTGAGGCTTCCTCGAGGCTGTGGGGAGCAAACCATGATCTACTTGGCTCC
GAACTGGCTGCTTCCCCTACCTGGACAAGACAGAGCAGTGGAGCACACTGCCTCCCGAGACCAAGGACCACGC
CGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAGTTTCGGAAGGCGGATGGTTCCCTATGCGGCTTGGTT
GTCACGGGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTGAAGGTCCTGAGTTTGGCCCAGGAGCAGGTAGGAGG
CTCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTGTCCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCT
CTCTCCAGTGATACATAGGAGCATGCAAGGGGGTGGTGGGCAATGATGAGACTGTGGCACTCACAGCCTTTGT
GACCATCGCCCTTCATCATGGGCTGGCCGTCTTCCAGGATGAGGGTGCAGAGCCATTGAAGCAGAGAGTGGAAGC
CTCCATCTCAAAGGCAAGCTCATTTTTTGGGGGAGAAAGCAAGTGCTGGGCTCCTGGGTGCCACGCAGCTGCCAT
CACGGCCTATGCCCTGACACTGACCAAGGCCCCCTGCGGACCTGCGGGGTGTTGCCACAACAACCTCATGGCAAT
GGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTCACTGGTTCTCAGAGCAATGCCGTGTCGCCACCCC
GGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCCAGCCCTGTGGATTGAAACCACAGCCTACGCCCTGCT
GCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGACCAGGCTGCGGCCTGGCTCACCCGTGAGGGCAGCTT
CCAAGGGGGATTCCGCGAGTACCCAAGACACGGTGATTGCCCTGGATGCCCTGTCTGCCTACTGGATTGCCTCCCA
CACCCTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCCACAGGCCGAATGGGTTCAAGTCCCACGCGCTGCA
GCTGAACAACCGCCAGATTGCGGCCTGGAGGAGGAGCTGCAGTTTTCTTGGGCAGCAAGATCAATGTGAAGGT
GGGAGGAAACAGCAAAGGAACCTGAAGGTCCTTCGTACCTACAATGTCCTGGACATGAAGAACACGACCTGCCA
GGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGAGTACACGATGGAAGCAAACGAGGACTATGAGGACTA
TGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCCCCCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGA
GGGTGCGAGGAACCGCCGAGGAGGGAGGCGCCCAAGGTGGTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGT
GTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATGGCCATCGCGGACGTCACCCCTCCTGAGTGGATTCCA
CGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCTGACCGTTACGTGAGTCACTTTGAGACCGAGGGGCC
CCACGTCCTGCTGTATTTTGACTCGGTCCCCACCTCCCGGGAGTGCGTGGGCTTTGAGGCTGTGCAGGAAGTGCC
GGTGGGGCTGGTGCAGCCGGCCAGCGCAACCCTGTACGACTACTACAACCCCGAGCGCAGATGTTCTGTGTTTTA
CGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGTTCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTG
CCCTCGCCAGCGTCGCGCCCTGGAGCGGGTCTGCAGGACGAGGATGGCTACAGGATGAAGTTTGCCTGCTACTA
CCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGAGAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGAC
CAAGATCACCAAGTCTGCACTTACCAAGGATGTCAAGGCCGCTGCTAATCAGATGCGCAACTTCTGTTTCG
AGCCTCCTGCCGCCTTCGCTTGGAACTGGGAAAGAATATTTGATCATGGGTCTGGATGGGGCCACCTATGACCT
CGAGGGACACCCCCAGTACCTGCTGGACTCGAATAGCTGGATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAG
CACCCGCCAGCGGGCAGCCTGTGCCAGCTCAACGACTTCTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTG
AGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCTGGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGC
TTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCTTTTGGCAGCA

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FIGURE 2148

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTGGACGATTGGCCAGCTT
TGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACTA
TACTCCGATCACCAATGTACCTCCAGAGGTAACCTGTGCTCACGAACAGCCCTGTGGAACTGAGAGAGCCCAACGT
CCTCATCTGTTTCATAGACAAGTTCACCCCACCAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCCTTCCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGGTGTTCCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCATTTTCCAGCCCTATAGCCACCCCA
AGAGTGGTTATGCCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGTA
TCTATTTTCTCTATTTTCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCTCAAACCTGTGATTTTTCTG
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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FIGURE 2149

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDGDEIFHVDMAKKETVWRLEEFGR
FASFQAQALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNSPVELREPNVLICFIDKFTPPVVNVTWLRNG
KPVTTGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCALGLT
VGLVGIIIGTIFI IKGLRKSNA AERRGPL

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FIGURE 2150

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTC
GCCGCCCCGCTGGTTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCGAGCTGTC
TGTTGCATGCGGTTTACGCGGAGGCCGAGGAGGGCGGTGGGCACGTGTGGGTCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 2151

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASF IKYSQLHFKSRESR
AGARDQPIIWKLKANYSAEERFLLLGFSDWPSLQPVL FALVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH
LALVDAGFTTSVVPPLLANLRGPALWLP RSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGD TTENQMFAARVVILLLPFAVI
LASYGAVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI
YTLRNKKVKGAARRLLRSLGRGQAGQ

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FIGURE 2152

GAGAGCACGACGTGCGCGCACCCCTCTCCCCTTGTCCTGCTGCGCGCTCCTTCTTCTGCCGCTCCTGGTGCTGC
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG
GCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT
GGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAG
GGATTGTCAATGAGGCAGATCAGATTCCGATTGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA
TGGAGGATGAAGATAACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTT
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGCTTCCACCACATCC
TGACTACTACCGTATAGTTTCTCTATTCTTTCAATTTCCCCCTTCCCCATTCTTTACTGTACATAAAGTAACTG
GTATATGTGCACAAGCATATTACTTTTTTTTTTTTAAACTAAACAGCCAATGGTATGTTTTGATTGACATCAAGT
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTGAGCTCTT
ATCTTTATATTCCAGTAAGTTATTTGCTCTCACTGTTTTAACAAACAACAAAAAAACAACACATAAAAATC
CTTGACATACCTTGTTCAATTGGAGAATTTAATGTTTTTCATTTATCATTGTAAAACCAAGGACAATTTTATAAC
TTTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAACAAAAAGAA
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTTGTTTAAATAAACTTCTTGTTTAAAA

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FIGURE 2153

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLSW
KWRMKIQLMCSNSRREVSTEKGTCTFTPELCSLTKITFSIRKLQFASTTS

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FIGURE 2154

GCGCACCTCTCCCCCTTGTCCACTGCTGCCGCCTCCTTCTTCTGCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTG
GAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATGGCCGAAGAAAAGCCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGACAGTGGAAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTGCTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTCATTCCCCCTTCCCCATTCTTTACTGTACATA

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FIGURE 2155

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGAC
CTGGGCCGGCTCCCACTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCAT
CTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG
GGCGCCGTGGATAGAGCAGGAGGGGCGGAGTATTGGGACCGGAACACACAGATCTACAAGGCCAGGCACAGAC
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATGACCAGTACGCCTACGACGGCAAGGATTA
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGA
GGCGGCCCGTGAGGCGGAGCAGCGGAGAGCCTACCTGGAGGGCGAGTGCGTGAGTGGCTCCGCAGATACCTGGA
GAACGGGAAGGACAAGCTGGAGCGCGCTGACCCCCAAAGACACACGTGACCCACCACCCATCTCTGACCATGA
GGCCACCCTGAGGTGCTGGGCCCTGGGTTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA
CCAAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGT
GGTGCCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCTCACCCCTGAG
ATGGGAGCCGTCTTCCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGT
CATCGGAGCTGTGGTTCGCTGCTGTGATGTGTAGGAGGAAGAGTTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC
TGCGTGCAGCGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGC
ACCTGAATGTGTCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCTTGTGTCCACTGTGA
CCCCTGTTTCGCATGCTGACCTGTGTTTCTCCCCA .

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FIGURE 2156

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFYTSVSRPGRGEPRFISVGIVDDTQFVRFDSDAASPREEPRAPW
IEQEGPEYWDNRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHDQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEAAREAEQRRAYLEGECEVEWLRRYLENGKDKLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTELVEVTRPAGDRTFQWAAVVVPSGEEQRYTCHVQHEGLPKPLTLRWEF
SSQSTVPIVGIVAGLAVLAVVVIGAVVAAMCRRKSSGGKGGSYSQAACSDSAQGSVDVSLTA

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FIGURE 2157

GGCGCCCCGAACCGTCCTCCTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGACCTGGGCGCCCCAGGCTCCCA
CTCCATGAGGTATTTGACACCGCCATGTCCCGCCCCGGCCGCGGGGAGCCCCGCTTCATCTCAGTGGGCTACGT
GGACGACACGCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGGATAGA
GCAGGAGGGGCGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGACTGACCGAGAGAGCCT
GCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCATGTACGGCTGCGACGT
GGGGCCGACGGGCGCCTCCTCCGCGGGCATAACCAAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGA
GGACCTGCGCTCCTGGACCGCGGCGGACACCGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGTGGC
GGAGCAGGACAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGAGAACGGGAAGGACAC
GCTGGAGCGCGCGGACCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGAGGCCACCTGAGGTG
CTGGGCCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGACCAAACCTCAGGACAC
TGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGAGA
AGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCTCACCCTGAGATGGGAGCCGTCTTC
CCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGTTCATCGGAGCTGTGGT
CGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGCTGCGTGCAGCGACAG
TGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAGGGACTGAGATGCAGG
ATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTTCTGCAAAGGCACCTGAATGTGTCTG
CGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCCACCCTTGTGTCCACTGTGACCCCTGTTCCCATGC
TGACCTGTGTTTCCCTCCCAGTCATCTTTCTTGTTCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAC
TTTACGTGCACTGAGCTGCAACTTCTTACTTCCCTACTGAAAATAAGAATCTGAATATAAATTTGTTTTCTCAAA
TATTTGCTATGAGAGGTTGATGGATTAATTAATAAGTCAATTCTGGAATTTGAGAGAGCAAATAAAGACCTGA
GA

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FIGURE 2158

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVG YVDDTQFVRFDSDAASPREEPRAPW
IEQEGPEYWD RNTQIFKTNTQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCVEWLRRLYLENGKDTLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTEL VETRPAGDRTFQKWA AVVVP SGEEQRYTCHVQHEGLPKPLTLRWE P
SSQSTVPIVGIVAGLAVLAVVIGAVVAAVMCRRKSSGGKGGSYSQAACSDSAQGS D VSLTA

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FIGURE 2159

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGTACTTGGGGGGGCGGGGGCAGGTCTGATGAGT
AACCCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCCGGGGCCAGGCCCTC
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCACTGCACCGGGCCTGTGCCCGCCACGAT
GCCCCTGCCCTGTGCCTGCTGCTTCGGCTCGGGGCTGACCCTGCCCACCAAGGACCGCCATGGGGACACGGCACTG
CATGCTGCTGCCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAA
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA
GATCGCCTGGCCCCGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCCGTCGACCCCCA
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGGCTCTTCAGGGAGCGAGCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC
AGGGCCGGGGCCAGGGAAGAGCACCCCAGAGGAGCGGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCTGCAGCGATTCCGAAGC
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTTCTCAGGCCCTGAATCGCCATGCA
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG
TAAGGGAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCTAATAAGACCTGGTTCC
ACATCTC

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FIGURE 2160

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTTAGGCCCATACCCTACGTCAC
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTCACCAGGCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGT
CAGCCTCTACAGTCCCAACGCTCTGCCTCACAGCAGATTCTTCAGCCCCAGCTTCTACCTCACTTGGACCCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 2161

TGAGGGAGTGAGGGAAGCTTCCTCTGTATTTACAGCCACTCCCCTTTGCTCACATTCCCGCCTGAGCTCCACCTT
CTCAGATGAGCAGCAGCATTAGATGCTCATAGGAGAACGCACCCTGTTGTGAACCATGCATGTGAGGGATCTAGG
TTGCGCTGTCTTATGAGAGTCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGAACATCCA
GTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTATGCTCCTACCTCCCGGCAGCCTCTCCAGGCCC
AGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCAAATGGCCTATTTAGGCCCCATACCCTACGTC
ACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTC
TTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACATTCTCAGGTCTCCCTCTGTTGTCCAAGG
CTGGAGTGTAGTAGTGCTATCGCAGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCCTCCCACGTCAACC
TCCCACGTGGCTGAGACTACAGGTGCTTGCCACTATGCCCACTAATATTTGGAATTTTCATATACGTGGATTCC
AGAGGGGTGACAGCGAAACGTGGGAACATCCAGTTGCAGGAAAACAAGCTTAACACGCCCCACTGATTCTACATTA
TGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTC
TCAATGGCCTATTTAGGCCCCATACCCTACGTCACGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTC
CACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTC

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FIGURE 2162

MAYLGPYPTSRQPPQMRLPHNSLHRHSSIVTMASLDPAPASQPSLQALNFLKLTSPGPAHASLQPLQAQLLHLG
GPSRPSLCLPSASTVPTSASQQILHAQLLPHLDPPDPDGVSLWHPQVKLLPFGSLSRPSSSCLPVASFGPAQLMP
PGGLPKPRF

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FIGURE 2163

GGCACGAGGGCCGGAAGGCGGCGTCCGCGACGCAGCTGTTACGCTTAGGTGGGCGACGTGGGCGCAGGTGGGCG
CAGG**ATG**GCAAAACAGAAGAGAAAAGTTCCTGAAGTGACAGAGAAAAAGAACAAAAAGCTGAAGAAGGCGTCAGC
AGAGGGGCCACTGCTGGGCCCTGAGGCTGCACCAAGTGGCGAAGGAGCCGGCTCCAAGGGCGAAGCTGTGCTCAG
GCCCCGGGCTGGACGCAGAGCCAGAGCTGTCCCCAGAGGAGCAGAGGGTCCTGGAAAGGAAGCTGAAAAAGGAACG
GAAGAAAGAGGAGAGGCAGCGTCTGCGGGAGGCAGGCCTTGTGGCCCAGCACCCGCCTGCCAGGCGCTCGGGGGC
CGAACTGGCCCTGGACTACCTCTGCAGATGGGCCCAAAAGCACAAAGAACTGGAGGTTTCAGAAGACGAGGCAGAC
GTGGCTCCTGCTGCACATGTATGACAGTGACAAGGTTCCCGATGAGCACTTCTCCACCCTGCTGGCCTACCTGGA
GGGGCTGCAGGGCCGGGCCCCGAGAGCTGACGGTGCAGAAGGCGGAAGCCCTGATGCGGGAGCTGGATGAGGAGGG
CTCTGATCCCCCCTGCCGGGGAGGGCCCAGCGCATCCGACAGGTGCTGCAGCTGCTCTCC**TAGT**GGGTTTCAGCG
CGGGGCGGGGCCGCTGCCAGTGCAGGGCTGCCTCAGACCACACAGGGTGCAGCTCCTCCGGCGGTGGGGGCCGG
GTTACACAGCAGGGCAGCGGCTGAGCAAGGGCTTTCAGCTCCTCCGGTGGTGGGGGCCGGGATCACCAGCACCAG
AGCCTCGCAAGGGCCCCCTTCCCTCCTCCAGACCCTCCTTGGCCGGTGACGGCTGTGACAGTGATGGCAGGTTTCAG
TGCCTTCAGCGCAGAGCGTGGATGCTCTGGAATCACCCGGACCCCTGGCCTTGGAGGGACCCTCCAGCCCCAGGA
ATCTGCTTTGGAGGGAAATGTCTATTTTTCTACCGGGAATATTTTAGAGATTGGGGCATGCTGGCTCCTCCCGCC
AGCTGCAAACCTGCACCTTCCGCCTGATTCCCGATCCCCCTGCGTGGGCCGCATTCCTGGTCCCCTGCCTGCGTC
CATCGAGGGGCCCTGGCTGTGGCCTGTTTTCCCTTTGACCCACACAGCGTCATTGCGGGTCATGGGGAGCCCCTGG
TGGGAGCTTGTGGAGTCGGATCACGTACCTGTGCAGAAACCGCCTCTGTGGCTGCATTTGAAATAAAACCCGACC
CAGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2164

MAKQKRKVPEVTEKKNKKLKKASAEGPLLGPAAAPSGEGAGSKGEAVLRPGLDAEPELSPEEQRVLERKLKKERK
KEERQRLREAGLVAQHPPARRSGAELALDYLCRWAQKHKNWRFQKTRQTWLLHMYDSKVPDEHFSLLAYLEG
LQGRARELTVQKAEALMRELDEEGSDPPLPGRAQRIRQVLQLLS

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FIGURE 2165

GCGGCGCGCTGCAGGCGCGGGGAACACCAATGCGGGGTACTTGAAGCTGGTGTGTGTTTCCTTTTCAGCGTCAAG
GGTTCACACTGTTGGGAGTCGCTGCAAGAATCGGACAGGCGCTGAGCACCTGTGGCTGACCCGACATCTCAGGG
ACCCATTTGTGAAGGCTGCGAAGGTGGAGAGTTACCGGTGTGGAAGCGCCTTCAAGCTCCTGGAGGTGAACGAGA
GGCACCAGATTCTGCGGCCCGGCCTTCGGGTGTTAGACTGTGGGGCAGCTCCTGGGGCCTGGAGTCAGGTGGCGG
TGCAGAAGGTCAACGCCGCAGGCACAGATCCCAGCTCTCCTGTTGGCTTCGTGCTTGGGGTAGATCTTCTTCACA
TATCCCCCTGGAAGGAGCAACTTTTCTGTGCCCTGCTGACGTGACTGACCCGAGAACCTCACAGAGAATCCTCG
AGGTGCTTCCTGGCAGGAGAGCAGATGTGATTCTGAGCGACATGGCGCCCAATGCCACAGGGTTCGGGGACCTCG
ATCATGACAGGCTCATCAGCCTGTGCCTGACCCTTCTCAGCGTGACCCAGACATCCTGCAACCTGGGGGGACAT
TCCTTTGTAAAACCTGGGCTGGAAGTCAAAGCCGTCGGTTACAGAGGAGACTGACAGAGGAATTCCAGAATGTAA
GGATCATCAAACCTGAAGCCAGCAGGAAAGAGTCATCAGAAGTGTAATTCTTGGCCACACAGTACCACGGAAGGA
AGGGCACTGTGAAGCAGTGAAGGATTTCTTGTGCCATTTTCATAATGGTCATTAGCTCCTTTTAAGCTAGAAACGT
AGCCTGAGCTCCTGAAGAGTTCTGAGGAGATTTGAGCTGATTTTGGAGATGGAGCAGGACAAGTGGGGAGTCTCT
CTCTCTCTTCTCTCTCTCTTTTTTAACCAAAAAGAGATGACAAAACCTAAGTTCAGGGGCCATGGAAAATGAAA
AAGTCCGCTATATTGTGATTTGGGAAGAGAAAAGTTATCAAGAGAAAAGAGGTGAGGATGGAAGGATGGAGAAAAAC
AGACTGTGGGAAGGATCAGAAGGAATCCGCCGAGGCAGGGATGGGTGTGCCCATGTGTGCCTTGACGGGACTTCA
TCTTATAGACTGTTAAACTGTACACACAAAACAGGCTTTCCACCCCTGCTCTGAGAGCACCACGCACAGATTTCC
AGTTCTTAGTGTGGCTGTTTTAAAGTAGAAAATCTGGGGGCTGGGTGAGGCCACTCATGCCTGTAAACCCAGGGCT
TTAGAAGGCTGAGGCTGGGGGATTGCTTGAAGTCAGGAGTTCAAGACCAACCTGGGCAACATAGCAACACCCCCC
ATGTCTACAAAATGAAAAACAAAAAGCAAACCAAAAGAAAAATCTGAAATTTCCATCTGGGGATTAACTTCTG
TCTTTCTGGTGAACAATATAGCAATTCACGCATTCTTCAAGCAGCAAAAGTTCCCGGAACAATTAGGGAAGACGT
ATGGTCTGAATTTATCCAGGCAGTGGGTCTGCTTTGGTTTTTGTCTGGAAATTTATATCAGTGTCTGGGCTCCCAA
GAACATAAATGTAATTGCCAAAGCAAAAAA

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FIGURE 2166

MAGYLKLVCSFQRQGFHTVGSRCNRTGAHLWLTRHLRDPFVKAAKVESYRCRSFAFKLLEVNERHQILRPGLR
VLDCGAAPGAWSQVAVQKVNAAGTDPSSPVGVLGVDLLHIFPLEGATFLCPADVTDPRTSQRILEVLPGRADV
ILSDMAPNATGFRDLHDRLISLCLTLLSVTPDILQPGGTFLCKTWAGSQRRLQRRLTEEFQNVRIIKPEASRK
ESSEVYFLATQYHGRKGIVKQ

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FIGURE 2167

CGGCGGCCGCGGAGCCCTGCGAGTAGGCAGCGTTGGGCCCATGCAGGACGCGGAGAACGTGGCGGTGCCCGAGGC
GGCCGAGGAGCGCGCCGAGCCCGGCCAGCAGCCGGCCGCCGAGCCGCCAGCCGAGGGGCTGCTGCGGCC
CGCGGGGGCCGCGCTCCGGAGGCCGCGGGGACCGAGGCCTCCAGTGAGGAGGTGGGGATCGCGGAGGCCGGGCC
GGAGTCCGAGGTGAGGACCGAGCCGGCGGCCGAGGCAGAGGCGGCCTCCGGCCCCGTCCGAGTCGCCCTCGCCGCC
GGCCGCCGAGGAGCTGCCCGGGTTCGATGCTGAGCCCCCTGTCCCGGCACAGGGCGAGGCCCCAGGAGAGCAGGC
TCGGGACGAGCGCTCCGACAGCCGGGCCAGGCGGTGTCCGAGGACGCGGGAGGAAACGAGGGCAGAGCGGCCGA
GGCCGAACCCCGGGCGCTGGAGAACGGCGACGCGGACGAGCCCTCCTTCAGCGACCCCGAGGACTTCGTGGACGA
CGTGAGCGAGGAAGAATTACTGGGAGATGTACTCAAAGATCGGCCCCAGGAAGCAGATGGAATCGATTGGGTGAT
TGTAAGTGACAATGTCCCTCAGGTGGGACCCGACCGACTTGAGAACTCAAAAATGTCATCCACAAGATCTTTTC
CAAGTTTGGGAAAATCACAAATGATTTTATCCTGAAGAGGATGGGAAGACAAAAGGGTATATTTTCTGGAGTA
CGCGTCCCCTGCCACGCTGTGGATGCTGTGAAGAACGCCGACGGCTACAAGCTTGACAAGCAGCACACATTCCG
GGTCAACCTCTTTACGGATTTTGACAAGTATATGACGATCAGTGACGAGTGGGATATTCCAGAGAAAACAGCCTTT
CAAAGACCTGGGGAACCTTACGTTACTGGCTTGAAGAGGCAGAATGCAGAGATCAGTACAGTGTGATTTTGGAG
TGGAGACCGCACTTCCATATTCTGGAATGACGTAAAAGACCCTGTCTCAATTGAAGAAAGAGCGAGATGGACAGA
GACGTATGTGCGTTGGTCTCCTAAGGGCACCTACCTGGCTACCTTTTCATCAAAGAGGCATTGCTCTATGGGGGG
AGAGAAATTCAGCAAATTCAGAGATTCAGCCACCAAGGGGTTTCAGCTTATTGACTTCTCACCTTGTGAAAGGTA
CCTGGTGACCTTTAGCCCCCTGATGGACACGCAGGATGACCCTCAGGCCATAATCATCTGGGACATCCTTACGGG
GCACAAGAAGAGGGGTTTTCACTGTGAGAGCTCAGCCCATTTGGCCTATTTTTAAGTGGAGCCATGATGGCAAATT
CTTTGCCAGAATGACCCTGGATACGCTTAGCATCTATGAACTCCTTCTATGGGTCTTTTGGACAAGAAGAGTTT
GAAGATCTCTGGGATAAAAGACTTTTTCTTGGTCTCCTGGTGGTAACATAATCGCCTTCTGGGTGCTGAAGACAA
AGATATTCCAGCCAGGGTAACCCTGATGCAGCTCCCTACCAGGCAAGAGATCCGAGTGAGGAACCTGTTCAATGT
GGTGGACTGCAAGCTCCATTGGCAGAAGAACGGAGACTACTTGTGTGTGAAAGTAGATAGGACTCCGAAAGGCAC
CCAGGGTGTGTGTCACAAATTTTGAATTTTCCGAATGAGGGAGAAAACAGGTACCTGTGGATGTGGTCGAGATGAA
AGAAACCATCATAGCCTTTGCCTGGGAACCAATGGAAGTAAGTTTGCTGTGCTGCACGGAGAGGCTCCGCGGAT
ATCTGTGTCTTTCTACCACGTCAAAAACAACGGGAAGATTGAACTCATCAAGATGTTTCGACAAGCAGCAGGCGAA
CACCATCTTCTGGAGCCCCCAAGGACAGTTTCGTGGTGTGGCGGGCCTGAGGAGTATGAACGGTGCCTTAGCGTT
TGTGGACACTTCGGACTGCACGGTCATGAACATCGCAGAGCACTACATGGCTTCCGACGTCGAATGGGATCCTAC
TGGGCGCTACGTCGTCACCTCTGTGTCTGGTGGAGCCATAAGGTGGACAACGCGTACTGGCTGTGGACTTTCCA
GGGACGCTCCTGCAGAAGAACAACAAGGACCGCTTCTGCCAGCTGCTGTGGCGGCCCCGGCCTCCCACTCCT
GAGCCAGGAACAGATCAAGCAAATTAAGGATCTGAAGAAATACTCTAAGATCTTTGAACAGAAGGATCGTTT
GAGTCAGTCCAAAGCCTCAAAGGAATTGGTGGAGAGAAGGCGCACCATGATGGAAGATTCCGGAAGTACCGGAA
AATGGCCCAGGAGCTCTATATGGAGCAGAAAAACGAGCGCCTGGAGTTGCGAGGAGGGGTGGACACTGACGAGCT
GGACAGCAACGTGGACGACTGGGAAGAGGAGACCATTGAGTTCTTCGTCAGTGAAGAAATCATTCCCCTCGGGAA
TCAGGAGTGACCTGGAGCACTGTGCGCAGCCGTGTGTGCTGTGGAGCCGAGGCCGTCTGCAGGAAGCCGCGTGA
CTCCCGCTCCTCCTGTGCTCTCTGGCTCTGGACTGTGACTGCGCCTGGATTCTGCCATTGCGACACATTTTGT
TGCCTTTCAGCCCCTGGTGTCTGCAGTGGGGGATTTAAGGCACCCGCTTCCACTTCTTCTTGTGTTGGAGTTTTC
TGTTGGAACCGCCGGCGTTGGCTCCGAAGACTTAGCGACGCCACTGGCGGCACCTTCTCCTGCGCCCAGTGATGT
TTCCACGGTGCCTGTACACAGCCGAGCAGCATTTCGTTGAAGGACTTGATCCCCATTGCGGGCAGTGCTGGAC
GTGTCCCGGAGACCCACCGGGAGGGCGCCGCCATGCCTTGTACCCCAACCGTGCAGGTTGTGGCCGGTTTTCTCC
GCAGGTTGAACATGGAAATAAAAGCAAACCTTGTATG

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FIGURE 2168

GTGGAGCGACCGGCTTGGCGCCTGCCTGTCCCCAGCCCCTCTCAGCTTGAACCTCCTTCCTTCAAGTCTGGGCCC
TCGAGGCTTCCAGAGCGGCCTCCAGGGGTGCAGTCTCAGTTCCCCACGCCAGCCGCTCTCCGCTCTCCGCCTCCTC
CGGGCCTGGCAGGTGGCACTGTCCGGAGGCGGAGCCTTGGGCGAGGGGTGGTTGCGGCGGAGGACGCAACCGAGC
GGGCTGCGGCCTCACCATGGACCCAGAATGCGCCCAGCTGCTCCCGGCTCTCTGTGCTGTTCTGGTAGATCCCA
GGCAGCCGGTGGCAGATGACACCTGTTTGGAGAAGCTCCTGGACTGGTTTAAACGGTCACTGAAGGAGAGTCCA
GTGTCGTGCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCCCATGTGCTGAAAGTCCAGGACCTGAGTT
CTGGGGTCTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGCAGCCCAGGAAAAGTCTTCCAGTATCTTCAGG
TGCGGTGACACCATCTTCTCCCTGCAGGGAGACTCCAGCCTGTTTGTGGCCTCGGCGGCCAGTCAGTCTCTGGT
GCACGTCTGGCTTTGTCCATGCGAGGTGGAGCCGAGGGGCGAGCCCTGCCTGCCGGGGGGTGAAGTGGCCCGCTG
TGCCCAAGATCATGGATCACGTTGAAGAGTCTTGTGCTCCGCGGCCACCCCCAAGGTCACTCAGGCCCTGAA
CGTCTGACCACGACCTTCGGGCGCTGCCAGAGCCCCTGGACGGAAGCCCTGTGGGTGCGGCTGAGTCCCCGCGT
GGCCTGTCTGCTGGAGAGAGACCCCATCCCCGCGCACACTCGTTTCGTGGACCTGCTTCTCTGTGTGGCTCGTTC
TCCCGTGTTCAGTTCTTCCGACGGCAGCCTGTGGGAGACAGTGGCGCGGGCTCTGAGCTGCCTGGGTCCCACCCA
CATGGGACCCCTGGCTTTGGGGATCCTGAAGCTCGAGCACTGTCCACAGGCACTGAGGACCCAGGCCTTCCAGGT
CCTTCTCCAGCCCCTGGCCTGTGTCTGAAGGCCACGGTTCAGGCCCCCGACCCCAAGGCTTGTGGACGGGAC
GGCAGACGATGCCACGACGGTGGACACACTCCTGGCCTCCAAGTCGTCTGCGCCGGCCTCCTGTGCCGCACCCT
GGCTCACCTGGAGGAGCTGCAGCCGCTGCCCCAGCGCCCTTACCCTGGCCCCAGGCGTCTCTACTGGGGGCTAC
AGTGACTGTCTGCGGCTCTGTGACGGCTCGGCTGCCCTGCCTCCAGTGTGGGGGGCCACCTCTGTGGGACCCCT
GGCGGGTGCCTCCGGGTCCAGCGAGCAGCCCTCGACTTCTGGGGACGCTGTACAGGGGACAGGCCCCCAGGA
GCTGGTGACGCAGGCGCTTGTGTCTCCTGAGTGCCTCGAGAGCCCCGGCTCCAGCCCCACGGTTCTGAAGAA
GGCCTTCCAGGCCACGCTCAGGTGGCTCCTGAGCTCACCCAAGACCCCCGGCTGCTCTGATCTCGGCCCCCTCAT
CCCGCAGTTCTCAGAGAGCTGTTCCCTGTGCTGCAGAAACGCTGTGCCACCCCTGCTGGGAGGTGAGGGACTC
CGCCCTCGAGTTCTGACCCAGCTGAGCAGGCACTGGGGAGGACAGGCTGACTTCAGATGCGCACTCTTGGCTTC
AGAGGTGCTCAGCTGGCCCTGCAGCTCCTCCAGGACCTGAGAGTTATGTCCGAGCGAGTGCAGTGACCGCCAT
GGGGCAGCTGTCCAGCCAGGGCCTGCACGCCCCCACCAGCCCTGAGCATGCAGAGGGCCCGGAGAGCCTGTTCT
GGAGCTCCTGCACATCTCTCCGTAGACTCGGAGGGCTTCCACGGCGGGCGGTATGCAAGTCTTCACTGAGTG
GCTGCGGGACGGCCACGCCGACGCGGCCAGGACACGGAGCAGTTCGTGGCCACTGTGCTGCAGGCGGCGAGCCG
AGACCTGGACTGGGAGGTCCGCGCCCAGGGCCTGGAGCTGGCCCTCGTGTCTTCTGGGCCAGACTTTGGGGCCGCC
GCGTACCCACTGCCCCATATGCCGTGGCCCTACCCGAGGTGGCCCCAGCCCAGCCACTCACCGAGGCACTGAGGGC
TCTCTGCCACGTGGGGCTCTTTGACTTCGCCTTTTGTGCCTTGTGTTGACTGCGACCGCCCTGTGGCGCAGAAGTC
TTGTGACCTCCTTCTCTTCTGAGGGACAAGATTGCTTCTACAGCAGCCTGCGGGAGGCCAGGGGCAGCCCCAA
CACTGCCTCCGCAGAGGCCACCCTGCCGAGGTGGCGGGCGGGTGAAGCAGGCCAGCCCCAGGGGACCAGGAGCC
TGAGGCTGTGCTGGCCATGCTCAGGTCCCTAGACCTGGAGGGCCTGCGGAGCACGCTGGCCGAGAGCAGCGACCA
CGTGAAAAGAGTCCCCAGTCCCTCCTGCAGGACATGCTGGCCACGGGAGGCTTCTGTCAGGGGGACGAGGCCGA
CTGCTACTGAGCAGAACCAGAGTCTGCCACTGGGGCTCAGGACCAAGGGAGGCAGCACCATGTCCTTCTGTGGGA
CACTGCCAGCCCCAGGGCTCCAGCCCAGCCCGGTGGATCCTCTGGGGAAGCCAGGACCAGGAGAGAAGCAAGGTC
AAGAAATCCCACAGTTTGATGTATTAAAGAAATGACTTATTTCTACTCAAATAAATGGCATTGAAGTCTTCTT

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FIGURE 2169

MRGGAEGQPCLPGGDWPACAQKIMDHVEESLCSAATPKVTQALNVLTTFGRCQSPWTEALWVRLSPRVACLLER
DPIPAAHSFVDLLLCVARSPVFSSSDGSLWETVARALSCLGPTHMGPLALGILKLEHCPQALRTQAFQVLLQPLA
CVLKATVQAPGPPGLLDGTADDATTVDTLASKSSCAGLLCRTLAHLEELQPLPQRPSWPQASLLGATVTVLRL
CDGSAAPASSVGGHLCGTLAGCVRVQRAALDFLGTLTSGTGPELVTOALAVLLECLESPGSSPTVLKKAQATL
RWLLSSPKTPGCSDLGPLIPQFLRELFPVLQKRLCHPCWEVRDSALEFLTQLSRHWGGQADFRCALLASEVPQLA
LQLLQDPESYVRASAVTAMGQLSSQGLHAPTSPEHAEARQSLFLELLHILSVDSSEGFPRAVMQVFTEWLRDGH
DAAQDTEQFVATVLAASRDLDWEVRAQGLELALVFLGQTLGPPRTHCPYAVALEVAPAQPLTEALRALCHVGL
FDFAFCALFDCDRPVAQKSCDLLFLRDKIASYSSLREARGSPNTASAEATLPRWRAGEQAQPPGDQEPEAVLAM
LRSLDLEGLRSTLAESSDHVEKSPQSLLQDMLATGGFLQGDEADCY

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FIGURE 2170A

GGCGGCCGAGCGGAGCCGAGCGCAGCCGAGCCGGGCCGAGCCGGGCCGGGCCGAGGAGCGCGCGGATGAT
GCGGGCGGCCAGGCGGGGGTTCGACGGGTCCCTGAAGCCCGCGCCCCGGGCCAGCAAGGGAGCCCCGCGCAGGCCG
CGCGCATCCGGAGGCGGCCGGGCCCCGCCATGGCCGGGTTCAGCTACGCGGCGCCCTGGTGGGTGAGCCTCCTGC
ACCGGCTGCCCCACTTCGACCTGAGCTGGGAGGCCACTAGCAGCCAGTTCCGGCCCCGAGGACACCGACTACCAGC
AGGCCCTGCTGCTCCTGGGGGCCGCCGCCCTGGCCTGCCTCGCCCTGGACCTCCTCTTCCTGCTCTTCTACTCCT
TCTGGCTGTGCTGCCGGCGGCGCAAGAGCGAGGAGCACCTGGACGCCGACTGCTGCTGCACGGCCTGGTGTGTCA
TCATCGCCACGCTGGTGTGCAGCGCCGGCATCGCAGTGGGATTCTACGGCAACGGGGAGACCAGTGATGGCATCC
ATAGGGCCACCTACTCGCTCCGCCACGCCAACCGCACGGTGGCCGGGGTCCAGGACCGCGTGTGGGACACGGCGG
TGGGGCTGAACCACACGGCGGAGCCCAGCCTGCAGACCCTGGAGCGGCAGCTGGCCGGGCGGCCCGAGCCCCCTGC
GAGCCGTACAGAGGCTGCAGGGCCTGCTGGAGACGCTGCTGGGCTACACGGCCGCCATCCCCTTTTGGAGGAACA
CGGCGGTGTGCTGGAGGTGCTGGCGGAGCAGGTGGATCTCTACGACTGGTACAGGGTCTGCCTGCTGGGAGTCC
TGGCCCTGGTCACTAGCTGGGGCGCGCTGGGCTTGGAGCTGGCTGTGTCCGTGGGCTCCAGCGACTTCTGTGTGG
ACCCTGACGCCTACGTGACCAAAATGGTGGAGGAGTACTCGGTGCTGAGTGGGGACATCCTGCAGTACTACCTGG
CCTGCTCGCCCCGCGCCGCCAACCCCTTCCAGCAGAAGCTGTGCGGCAGCCACAAGGCACTGGTGGAGATGCAGG
ATGTGCTGGCTGAGCTTCTGAGGACCGTCCCTGGGAGCAGCCGGCCACTAAGGACCCCTCCTCCGCGTCCAGG
AGGTGCTGAATGGCACGGAGGTGAACCTGCAGCACCTACCGCCCTGGTGGACTGCCGAGCCTGCATCTGGACT
ACGTGCAAGCGCTGACCGGCTTCTGCTATGACGGCGTGGAGGGCCTCATCTACCTGGCCCTCTTCTCCTTCGTCA
CAGCCCTCATGTTAGCTCCATCGTCTGCAGCGTCCCGCACACCTGGCAGCAAAAGAGAGGCCCTGATGAGGACG
GGGAGGAGGAGGCCGCTCCAGGGCCGCGGCGAGGCGCACGACAGCCTCTACCGCTCCACATGCCAGCCTGTACA
GCTGTGGCAGCAGCTACGGCAGTGAGACCAGCATCCCGGCCGCGGCCACACCGTCAGCAACGCCCCGGTCACTG
AGTACATGAGCCAGAACGCTAATTTCCAGAACCCCGCTGTGAGAACACCCCACTCATTGGGCGCGAGTCCCCGC
CGCCCTCATACACCTCCAGCATGAGAGCCAAATACCTCGCCACGAGCCAGCCTCGCCCTGACTCCAGCGGCAGCC
ACTAGACCGCGCCCGGCGAGCCACCCACCCACGTGCCAACTTCCCTCCCGTGCCAGCACTGCCGCTTCCACCT
GGGCCACCCACCGGACCCCTCGCACGCCGTGCCAGGCCTGCCCCAGACGCTCTGCAGGCCGCTTGCCTCCTGTC
CCCTCCCCCGAGGGGACAGTGAGAGCGCAGGGGCTCTGGGCCCCTACCGCCAACCTCGGGTCACACCTGAACGCT
GCTGCCAGCCGATGCCCCAGCCCTGCACGCCACCCACTATCCCGGCACGCTCCCTCTGCAGATGGTCCCGCACC
TACAAGCCCTGGCCGACCCAACTGTGTTGTTGCCGCCCGGCCCTTCCCTCCACAGCTCTCCTTCCCGCCC
GGCACTTCTGTGGACCCCTTCTTAGTTACAGGCACGGCTGGGGCCGCTCTGTGCTGGCGCCTGCTGGCCACTGA
GGGACAGGGACAGTGCCACCTGCTCATCTCTGCCCTGAGGTACCCCCGTGGTCCCTCCACGTGCCCATCTCTCT
GCAGTGCCCTCCTCGCTGTGCAGCCCGCCACCCACAGGCTCACCCCTCCTGCCGGCTGCCAGAGGCCCTCC
AGCAGGGCCTCTCTCCGTTGCCCCAGCTTCACTCTCTCCCTCAGCACCTGCCCTGCTGGAGGCCAGCCCTCCG
TGGACAGCAGGGGCCACGTGGAGCCCGGGCCGCTCACCCGCCACCCAGTGCTGGCCGCCTTCTTGGTGCCAAACC
CCCTTCCCCACCCAGAGACTGGGCAGCTGTGTCTGGTTCTTTGCACTAACCACATTTGTCTATCTCTAGGG
CAGGCTGGGGCTGCGGGCTGAGGGGACCGCTGGCACCCCCCTCCCTCCCTTCTTGGTTCCATTTCCATCCATG
ACAGGTACAGCATCCAGGAGCCCGGCTGAGGGGCTGGACCCGAGCCGGCTGTGAACATCCCTCAGCCCCCTGCT
GTCCCCCTTGGGACTAACCACTAACCTCACCCCCAACTCCACGGGTGCCCTAGCTGGCCAGAGCCGGCAGT
GTGAGCCCAAGTCCGGGCTGGAGCCGAGGCCGAGCAGCTGTCTGGGAGTCAAGGCTGCAGTAGCGTTTCTTCAT
GGGGTGCTCCAGGGGGTGCCACAGACCAGAGGAGCCCAAGGGCCTGGACACCCCTCCCCAGGCAGGTGCTGCC
CCAGGAGGACTGTCTCGGGAATGAACCTCCCGCGGGCTTTGGACTGAGGTCCCTGTGGCCTCGGTCTCCTCCCC
ATGAAGTGGGAGCGAGGCTCCCCAATGGTGCTTTTGGCTTTAGTGACGATGTTTGTGTGCTTCCCGCCGTGGA
GGGCAGAGCCACCCACATCAGGATCGGACGTGCTACCCCTCCCGGTCCCGGCCCTGGCCAGCCAGCCAGCCC
TCGAGGCTCGATGCCTGTGCCAAGGCCAGGGCAGCCAGAGGGCAGCTGGATGGCCACGTGCAGGGGTCAAGGCT
GGGCCCTGCAGTGGGGCGGGCCAGCCCCAGCAGTTTACAGACGCATGGCTCTTCTCCAGAGCAGCCGGCA
GCTACCTGGACCGGAAATGTCTCATCCCTCCCTGGGGCCAGGCTCTGCCCTGGCCTTCTCTGTGAACCCCTC
CTTTCTTTGTGCTGGTGTCTGGGACCAAAAGGGGGAATATGGGAGGGCAGAGTGGGGAGGGGAGTCCATGGGCC
TGGGGCCCCAAGCCGGGGCTCTGAGCTCCCCAGGCATGACCAACCTCAGTGGAGGGGCTCTGCTTCAGGCC
CGCCTGGCTGACATTTGAGCCCCCTCGGAGGCCCGCCACAGCCAACCTGCCAGTCTTCTCTGGGCTTGA
CCCGCCAGGGGAGTTCTCCAGGCCTAGGGCCAGGAGAGGGCCCTGGCACCTGGCGTGGGTGCCCGCCAAACGC

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FIGURE 2170B

CCTGCGACCGCTCAGAAGCACAAATGCTGTCCATGGCCGTGAGGCTGCCTGCCAGGTGAATGGACATAGCGTGAG
AGGCGGTGAGGCCAGGGCTTCCAGCCTCGTGCTGTCTCGGGACTCCTGACCGTGGTGTGCGTGTGTGCCCCGTCTG
TGACTTTCTACTCACCAAGGTTGAAGAAAGGAAACGGGGAAAATCAAAAGGGGTTCAAACCCACCTCAGTAGGT
GGAGGGGAGCGCCTGCCATTGGTTGTATTTTTGTTCTGAGTTTTTCGGTGCCGTGTTCTAACTACTCCATCCCAT
GACCTCGCCACACCTACTGGGGCATCTGGCTGGTGCCTGCTGCCATGGCCAGCCCCACTCTCACCCTGCACAGG
GGGTCTTGCAGCCCCCAGGCCACAGCCTCGTTGGGAGGACAGGGTGGCCCTGGGGACAAGAGGGAGGAGCCCAG
GGGCTTACCTCACTGAGAGTGCTCCCCAGCAGGCATCCACTACCCCAGGGCCCCCACATGTCATGGCAAGGTTG
GTAGTGAATGGGCCTGGTTGGGAGCAGCCCCTGGCCCATTGCCCCACCCACCCATCTCACTATGCAATTCGAGTTC
CAAGCAACATTTGCTCCTGCCCTGGGGCCAGCTCTGCCCCAGCCCTGAGAGGGGTGGTGAGGCAGCCCCCTGGAC
CCCAGAACCCCAGACAAGGGGGCAGGCGGGGACCAGGGCCTCTCCTGTGGGATCTTTGTTTTGTGTTTAACCAT
AATGGTTGTGTACTGAACCACTTCATATTTGTTATATATAATATATATATATAATCTCCTTAAGACTCAGCCT
CCTGGTTTACCCCCCGGCCTGGGCATCTGACCTCCCCACCCCAGTGTGATTTAACATCCAGGAAGTGAAGCCT
GAACCATTTTGCAATTTCCCCCTCCTCCAGCCTCTGTAGGGCCATGGCTGTATGTACTGTCGCTGIGTTTTTTTGT
TTTTTTAGAACTGGGTTTGGGGGCTGATTTTTATTTCTTTGGGGGCTTTTTTTCTTGCGCAAATACTAAAAATCTC
GTCAATGTAATTTCTGTGGTTTCTATTAGCTTGGGTTTCATGTTTTAAATAAAATTTTAAAAAGC

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FIGURE 2171

MAGVSYAAPWWVSLHLRPHFDLSWEATSSQFRPEDTDYQQALLLLGAAALACLALDLLFLLFYFWLCCRRRKS
EEHLDADCCCTAWCVIIATLVCSAGIAVGFGNGETSDGIHRATYSLRHANRTVAGVQDRVWDTAVGLNHTAEP
LQTLERQLAGRPEPLRAVQRLQGLLETLLGYTAAIPFWRNTAVSLEVLAEQVDLYDWYRVCLLGVLALVISW
GLELAVSVGSSDFCVDPDAYVTMVEEYSVLSGDILQYYLACSPRAANPFQQKLSGSHKALVEMQDVVAELLRT
PWEQPATKDPLLRVQEVNLNGTEVNLQHLTALVDCRSLHLDYVQALTGFCYDGVGLIYLLALFSFVTALMFSSIV
SVPHTWQQKRGPDDEGEEEAAPGPRQAHDLSYRVHMPSLYSCGSSYGSETSIPAAAHTVSNAPVTEYMSQANFQ
NPRCENTPLIGRESPPPSYTSSMRAYLATSQPRPDSSGSH

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FIGURE 2172

ACAGAACAGAGAGAAAGGAACCTTTGTCTTTTCGTGTGAATGCTCGTGAGGGGGCCATCCTTAGAGTGGAATGCTC
CTGAGGCTCCAGCGAATCAAGACCCTCAGACCCCGGGCTGTCCCCACCCCATGACCACATGTTCCGCAGGCA^ˆCC
CTCAGCGCTGTGCCCTGCGTGTGCGCCAGGCAGGTGTTTGTGTTTTGAGCGCAGATTCTGCCTGTGGCATAGCCAT
GTGGAGATGTTACGCATGTACTTCCCTTTGTGATTTACGCCGATACGGAAGATGTGTGCATTGTAGAGAGATTG
TTCTCCAGCAGCCTAGTGGCCATCGTGAGCCTTAAAGCACCAAGGAAGCTAAAGGTTTGCCACTTTAAGAAGGGA
ACTGAGATCTGCAACTACAGCTACTCCAACACGATTCTGGCTGTGAAGCTCAACAGGCAGAGGCTGATAGTATGC
CTGGAGGAGTCCCTGTACATCCACAACATTCGGGACATGAAGGTGCTGCATACGATCAGGGAGACGCCTCCAAAC
CCTGCAGGCCTGTGTGCGCTGTCAATCAACAACGACAACCTGCTACTTGGCGTACCCAGGGAGCGCGACCATCGGA
GAGGTGCAGGTCTTCGATAACCATTAATTTGAGAGCTGCAAACATGATTCCGGCTCACGACAGTCCTTTAGCGGCA
CTGGCCTTTGACGCAAGTGGAACATAA^ˆCTTGCCACGGCTTCGGAGAAGGGGACCGTGATTAGGGTATTTTCCATT
CCAGAAGGACAAAACTCTTTGAGTTTCGGAGAGGAGTAAAGAGGTGCGTGAGCATCTGCTCCCTGGCCTTCAGC
ATGGACGGCATGTTCCCTCTCCGCCTCCAGCAACACTGAGACCGTGACATCTTCAA^ˆACTCGAGACTGTGAAAGAA
AAACCCCCAGAGGAGCCCACCACCTGGACCGGGTACTTCGGGAAAGTGCTCATGGCCTCCACCAGCTACCTGCCT
TCCAAGTGACAGAAATGTTCAACCAGGGCAGAGCTTTGCCACGGTCCGCCTGCCATTCTGCGGCCACAAAAAC
ATCTGCTCGCTAGCCACAATTCAGAAGATCCCGCGGTTGTTGGTGGGTGCCGCCGACGGGTACCTGTACATGTAC
AACCTGGACCCCCAGGAGGGCGCGAGTGTGCCCTGATGAAGCAGCACCGGCTGGACGGCAGTCTGAAAACGACC
AATGAGATCTTGGACTCTGCCTCTCACGACTGCCCTTAGTCACTCAGACATACGGCGCAGCTGCAGGAAAAGCC
TACACAGACGACCTGGGTGCTGTGGGTGGCGCCTGCCTGGAGGACGAGGCCAGCGCCCTGCGCCTGGATGAGGAC
AGCGAGCACCCGCCCATGATTCTTCGGACTGACTTGA^ˆACTTGACCTGTGACCTCTGACCCGGGGAGCAGAGAACAC
TGGCTTCACAGAGGACTTTGTGCATTGCTGCTATGAACTTGACCTGAGTCGGGGGAGAGGATGGCAGAGACTTT
ATT

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FIGURE 2173

MLLRLQRIKTLRPPGCPHPMTTCSAGTLSAVPCVSPRQVFVFERRFCLWHSVEMFTHVLPFFVISADTEDVCIVE
RLFSSSLVAIVSLKAPRKLKVCHFCKGTEICNYSYSNTILAVKLNQRRLIVCLEESLYIHNI RDMKVLHTIRETP
PNPAGLCALSINNDNCYLAYPGSATIGEVQVFD TINLRAANMIPAHDSPLAALAFDASGTKLATASEKGTVIRVF
SIPEGQKLFEFRRGVKRCVSICSLAFSMDGMFLSASSNTETVHIFKLETVKEKPPEEPTTWTGYFGKVLMASTSY
LPSQVTEMFNQGRAFATVRLPFCGHKNICSLATI QKIPRLLVGAADGYLYMYNLDPOEGGECALMKQHRLDGSLK
TTNEILDSASHDCPLVTQTYGAAAGKAYTDDLGA VGGACLEDEASALRLDEDSEHPPMILRTD

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FIGURE 2174

CGCGTCCGCCCCGCGAGCACAGAGCCTCGCCTTTGCCGATCCGCGCCCGTCCACACCCGCGCCAGCTCACCAT
GGATGATGATATCGCCGCGCTCGTCGTCGACAACGGCTCCGGCATGTGCAAGGCCGGCTTCGCGGGCGACGATGC
CCCCCGGGCCGTCTTCCCCTCCATCGTGGGGCGCCCCAGGCACCAGGGCGTGATGGTGGGCATGGGTGAGAAGGA
TTCCTATGTGGGCGACGAGGCCAGAGCAAGAGAGGCATCCTCACCCTGAAGTACCCCATCGAGCACGGCATCGT
CACCAACTGGGACGACATGGAGAAAATCTGGCACCACACCTTCTACAATGAGCTGCGTGTGGCTCCCGAGGAGCA
CCCCGTGCTGCTGACCGAGGCCCCCTGAACCCCAAGGCCAACC GCGAGAAGATGACCCAGATCATGTTTGAGAC
CTTCAACACCCAGCCATGTACGTTGCTATCCAGGCTGTGCTATCCCTGTACGCCTCTGGCCGTACCACTGGCAT
CGTGATGGACTCCGGTGACGGGGTCACCACACTGTGCCATCTACGAGGGGTATGCCCTCCCCCATGCCATCCT
GCGTCTGGACCTGGCTGGCCGGGACCTGACTGACTACCTCATGAAGATCCTCACCAGCGCGGGCTACAGCTTCAC
CACCACGGCCGAGCGGGAATCGTGCCTGACATTAAGGAGAAGCTGTGCTACGTGCGCCTGGACTTCGAGCAAGA
GATGGCCACGGCTGCTTCCAGCTCCTCCCTGGAGAAGAGCTACGAGCTGCCTGACGGCCAGGTCATCACCATTGG
CAATGAGCGGTTCCGCTGCCCTGAGGCACTCTTCCAGCCTTCCTTCCCTGGGCATGGAGTCCTGTGGCATCCACGA
AACTACCTTCAACTCCATCATGAAGTGTGACGTGGACATCCGCAAAGACCTGTACGCCAACACAGTGCTGTCTGG
CGGCACCACCATGTACCCTGGCATTGCCGACAGGATGCAGAAGGAGATCACTGCCCTGGCACCCAGCACAAATGAA
GATCAAGATCATTGCTCCTCCTGAGCGCAAGTACTCCGTGTGGATCGGCGGGCTCCATCCTGGCCTCGCTGTCCAC
CTTCCAGCAGATGTGGATCAGCAAGCAGGAGTATGACGAGTCCGGCCCCCTCCATCGTCCACCGCAAATGCTTCTTA
GGCGGACTATGACTTAGTTGCGTTACACCTTTCTTGACAAAACCTAACTTGCGCAGAAAACAAGATGAGATTGG
CATGGCTTTATTGTTTTTTTTTGTTTTGTTTTGGTTTTTTTTTTTTTTTTTTGGCTTGACTCAGGATTTAAAACTG
GAACGGTGAAGGTGACAGCAGTCGGTTGGAGCGAGCATCCCCCAAAGTTCACAATGTGGCCGAGGACTTTGATTG
CACATTGTTGTTTTTTTTTAATAGTCATTCCAAATATGAGATGCATTGTTACAGGAAGTCCCTTGCCATCCTAAAAG
CCACCCCACTTCTCTCTAAGGAGAATGGCCAGTCCTCTCCCAAGTCCACACAGGGGAGGTGATAGCATTGCTTT
CGTGTAATTATGTAATGCAAAATTTTTTAATCTTCGCCCTAATACTTTTTTTATTTTGTGTTTTATTTGAATGAT
GAGCCTTCGTGCCCCCCTTCCCCCTTTTTGTCCCCCAACTTGAGATGTATGAAGGCTTTTGGTCTCCCTGGGAG
TGGGTGGAGGCAGCCAGGGCTTACCTGTACACTGACTTGAGACCAGTTGAATAAAAGTGCACACCTTA

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FIGURE 2175

MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMMGMGQKDSYVGDEAQSKRGILTLKYPIEHGI
VINWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTG
IVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQ
EMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLS
GGTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF

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FIGURE 2176

GCGGAGGGTGCGTGCGGGCCGCGGCAGCCGAACAAAGGAGCAGGGGCGCGCCGCGCAGGGACCCGCCACCCACCTC
CCGGGGCCGCGCAGCGGCCCTCTCGTCTACTGCCACCATGACCGCCAACGGCACAGCCGAGGCGGTGCAGATCCAG
TTCGGCCTCATCAACTGCGGCAACAAGTACCTGACGGCCGAGGCGTTTCGGGTTCAAGGTGAACGCGTCCGCCAGC
AGCCTGAAGAAGAAGCAGATCTGGACGCTGGAGCAGCCCCCTGACGAGGCGGGCAGCGCGGCCGTGTGCCTGCGC
AGCCACCTGGGCGCTACCTGGCGGGCGGACAAGGACGGCAACGTGACCTGCGAGCGCGAGGTGCCGGTCCCGAC
TGCCGTTTCCCTCATCGTGGCGCACGACGACGGTCTGCTGGTCTGCTGAGTCCGAGGCGCACCGGCGCTACTTCGGC
GGCACCGAGGACCGCCTGTCTGCTTCGCGCAGACGGTGTCCCCCGCCGAGAAGTGGAGCGTGCACATCGCCATG
CACCTCAGGTCAACATCTACAGTGTACCCGTAAGCGCTACGCGCACCTGAGCGCGCGGCCGGCCGACGAGATC
GCCGTGGACCGCGACGTGCCCTGGGGCGTCTGACTCGCTCATCACCTCGCCTTCCAGGACCAGCGCTACAGCGTG
CAGACCGCCGACCACCGCTTCCCTGCGCCACGACGGGCGCCTGGTGGCGCGCCCCGAGCCGGCCACTGGCTACACG
CTGGAGTTCGCTCCGGCAAGGTGGCCTTCCGCGACTGCGAGGGCCGTTACCTGGCGCCGTGCGGGGCCAGCGGC
ACGCTCAAGGCGGGCAAGGCCACCAAGGTGGGCAAGGACGAGCTCTTTGCTCTGGAGCAGAGCTGCGCCCAGGTC
GTGCTGACGGCGGCCAACGAGAGGAACGTGTCCACGCGCCAGGGTATGGACCTGTCTGCCAATCAGGACGAGGAG
ACCGACCAGGAGACCTTCCAGCTGGAGATCGACCGCGACACCAAAAAGTGTGCCTTCCGTACCCACACGGGCAAG
TACTGGACGCTGACGGCCACCGGGGGCGTGCAGTCCACCGCCTCCAGCAAGAATGCCAGCTGCTACTTTGACATC
GAGTGGCGTGACCGGCGCATCACACTGAGGGCGTCCAATGGCAAGTTTGTGACCTCCAAGAAGAATGGGCAGCTG
GCCGCTCGGTGGAGACAGCAGGGGACTCAGAGCTCTTCCCTCATGAAGCTCATCAACCGCCCCATCATCGTGTTT
CGCGGGGAGCATGGCTTCATCGGCTGCCGCAAGGTACGGGCACCCCTGGACGCCAACCGCTCCAGCTATGACGTC
TTCCAGCTGGAGTTCAACGATGGCGCCTACAACATCAAAGACTCCACAGGCAAATACTGGACGGTGGGCAGTGAC
TCCGCGGTACACAGCAGCGCGACACTCCTGTGGACTTCTTCTTCGAGTTCTGCGACTATAACAAGGTGGCCATC
AAGGTGGGCGGGCGCTACCTGAAGGGCGACACGCGAGGCGTCTGAAGGCCTCGGCGGAAACCGTGGACCCCGCC
TCGCTCTGGGAGTACTAGGGGCCGGCCCGTCTTCCCCGCCCCCTGCCCACATGGCGGCTCCTGCCAACCTCCCTG
CTAACCCCTTCTCCGCCAGGTGGGCTCCAGGGCGGGAGGCAAGCCCCCTTGCCCTTCAAACCTGGAAACCCAGAG
AAAACGGTGCCCCACCTGTGCCCCCTATGGACTCCCCACTCTCCCCCTCGCCCCGGTTCCCTACTCCCTCGGG
TCAGCGGCTGCGGCCTGGCCCTGGGAGGGATTTAGATGCCCCCTGCCCTCTTGCTGCCACGGGGCGAGTCTGGC
ACCTCTTTCTTCTGACCTCAGACGGCTCTGAGCCTTATTTCTCTGGAAGCGGCTAAGGGACGGTTGGGGGCTGGG
AGCCCTGGGCGTGTAGTGTAAGTGAATCTTTTGCCTCTCCAGCCACCTCCTCCCAGCCCCCAGGAGAGCTGG
GCACATGTCCCAAGCCTGTAGTGGCCCTCCCTGGTGCAGTGTCCCCGAAACCCCTGCTTGGGAAGGGAAGCTGT
CGGGAGGGCTAGGACTGACCCTTGTGGTGTTTTTTTGGGTGGTGGCTGGAAACAGCCCCCTCTCCACGTGGGAGA
GGCTCAGCCTGGCTCCCTTCCCTGGAGCGGCAGGGCGTGACGGCCACAGGGTCTGCCCGCTGCACGTTCTGCCAA
GGTGGTGGTGGCGGGCGGGTAGGGGTGTGGGGGCGCTCTTCCCTCTGTCTCTTTCCCTTACCCTAGCCTGACTG
GAAGCAGAAAATGACCAAATCAGTATTTTTTTAATGAAATATTATTGCTGGAGGCGTCCCAGGCAAGCCTGGCT
GTAGTAGCGAGTGATCTGGCGGGGGCGTCTCAGCACCTCCCCAGGGGGTGATCTCAGCCCCCTCTTTCCGTC
CTTCCCGTCCAGCCCCAGCCCTGGGCTGGGCTGCCGACACCTGGGCCAGAGCCCCCTGCTGTGATTGGTGTCTCC
TGGGCTCCCGGGTGGATGAAGCCAGGCGTCGCCCCCTCCGGGAGCCCTGGGGTGAGCCGCGGGGGCCCCCTGC
TGCCAGCCTCCCCCGTCCCCAACATGCATCTCACTCTGGGTGTCTTGGTCTTTTATTTTTTTGTAAGTGTATTG
TATAACTCTAAACGCCCATGATAGTAGCTTCAAACCTGGAAATAGCGAAATAAAATAACTCAGTCTGC

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FIGURE 2177

MTANGTAEAVQIQFGLINCGNKYLTAEAFGFKVNASASSLKKKQIWTLEQPPDEAGSAAVCLRSHLGRYLAADKD
GNVTCEREVPGPDCRFLIVAHDDGRWSLQSEAHRRYFGGTEDRLSCFAQTVSPA EKWSVHIAMHPQVNIYSVTRK
RYAHL SARP ADEI A VDRDVPWGVDSLITLAFQDQRYSVQTADHRFLRHDGRLVARPEPATGYTLEFRSGKVAFRD
CEGRYLAPSGPSGTLKAGKATKVGKDELFALEQSCAQVVLQAANERNVSTRQGMDSL ANQDEETDQETFQLEIDR
DTKKCAFRTHTGKYWILTATGGVQSTASSKNASCYFDIEWRDRRITLRASNGKFVTSKKNQQLAASVETAGDSEL
FLMKLINRPIIVFRGEHGFICRKVTGTLDANRSSYDVFQLEFNDGAYNIKDSTGKYWTVGSDSAVTSSGDTPVD
FFFEFC DYNKVAIKVGGRYLKGDHAGVLKASAETVDPASLWEY

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FIGURE 2178

CCGAACGCCCCGAGCAGGGTCAGAAGGGAGGTGGCCGGTCTCCGTCGTGACCTCTGACGGTTTCTGAGCGTTGGC
CTTTGGCACGCGCTACACCCTTTTGCTTTGGTTCTGCCATGCCGATGTACCAGGTAAAGCCCTATCACGGGGGCG
GCGCGCTCTCCGTGTGGAGCTTCCCACCTGCATGTACCGGCTCCCCAACGTGCACGGCAGGAGCTACGGCCCAG
CGCCGGGCGCTGGCCACGTGCAGGAAGAGTCTAACCTGTCTCTGCAAGCTCTTGAGTCCCGCCAAGATGATATTT
TAAAACGTCTGTATGAGTTGAAAGCTGCAGTTGATGGCCTCTCCAAGATGATTCAAACACCAGATGCAGACTTGG
ATGTAACCAACATAATCCAAGCGGATGAGCCCACGACTTTAACCACCAATGCGCTGGACTTGAATTCAGTGCTTG
GGAAGGATTACGGGGCGCTGAAAGACATCGTGATCAACGCAAACCCGGCCTCCCCTCCCCTCTCCCTGCTTGTGC
TGCACAGGCTGCTCTGTGAGCACTTCAGGGTCCTGTCCACGGTGACACGCACTCCTCGGTCAAGAGCGTGCCCTG
AAAACCTTCTCAAGTGCTTTGGAGAACAGAATAAAAAACAGCCCCGCCAAGACTATCAGCTGGGATTCACTTTAA
TTTGGAAGAATGTGCCGAAGACGCAGATGAAATTCAGCATCCAGACGATGTGCCCCATCGAAGGCGAAGGGAACA
TTGCACGTTTCTTGTCTCTCTGTTTGGCCAGAAGCATAATGCTGTCAACGCAACCCTTATAGATAGCTGGGTAG
ATATTGCGATTTTTTCAGTTAAAAGAGGGAAGCAGTAAAGAAAAAGCCGCTGTTTTCCGCTCCATGAACTCTGCTC
TTGGGAAGAGCCCTTGGCTCGCTGGGAATGAACTCACCGTAGCAGACGTGGTGTGTGGTCTGTACTCCAGCAGA
TCGGAGGCTGCAGTGTGACAGTGCCAGCCAATGTGCAGAGGTGGATGAGGTCTTGTGAAAACCTGGCTCCTTTTA
ACACGGCCCTCAAGCTCCTTAAGTGAATTGCCGTAAGTGAATTTAAAGGGTTTAGATTTTAAGAATGGTGCTCTT
TCATGCCTATTATCAGTAAGGGGACTTGTATTAGAGTCAGAGTCTTTTATTTAGGCCAGTTGTCAAGTGTCAAT
AAAAGCGCATCATGTAATTTA

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FIGURE 2179

MPMYQVKPYHGGGAPLRVELPTCMYRLPNVHGRSYGPAPGAGHVQEE SNLSLQALESRQDDILKRLYELKAAVDG
LSKMIQTPDADLDVTNIIQADEPTTLTTNALDLNSVLGKDYGALKDIVINANPASPLSLLVLHRLLCHEFRVLS
TVHTHSSVKSPENLLKCFGEQNKKQPRQDYQLGFTLIWKNVPKTQMKFSIQTMCPIEGEGNIARFLFSLFGQKH
NAVNATLIDSWVDIAIFQLKEGSSKEKAAVFRSMNSALGKSPWLAGNELTVADVVLWSVLQQIGGCSVTVPANVQ
RWMRSCENLAPFNTALKLLK

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FIGURE 2180

ATCGGAGTGTGGCAGTGCTGGGCTGGCCGGCGGGCTGGGCTGCGGCCCGCGCGCGGCCGGCGATGCAGGGGGGCA
ACTCCGGGGTCCGCAAGCGCGAAGAGGAGGGCGACGGGGCTGGGGCTGTGGCTGCGCCCGGCCATCGACTTTC
CCGCCGAGGGCCCCGACCCCGAATATGACGAATCTGATGTTCCAGCAGAAATCCAGGTGTTAAAAGAACCCTAC
AACAGCCAACCTTCCCTTTTGCAGTTGCAAACCAACTCTTGCTGGTTTCTTTGCTGGAGCACTTGAGCCACGTGC
ATGAACCAAACCCACTTCGTTCAAGACAGGTGTTTAAAGCTACTTTGCCAGACGTTTATCAAAATGGGGCTGCTGT
CTTCTTTCACTTGTAGTGACGAGTTTAGCTCATTGAGACTACATCACAACAGAGCTATTACTCACTTAATGAGGT
CTGCTAAAGAGAGAGTTCGTCAGGATCCTTGTGAGGATATTTCTCGTATCCAGAAAATCAGATCAAGGGAAGTAG
CCTTGGAAGCACAACTTCACGTTACTTAAATGAATTTGAAGAACTTGCCATCTTAGGAAAAGGTGGATACGGAA
GAGTATACAAGGTCAGGAATAAATTAGATGGTCAGTATTATGCAATAAAAAAATCCTGATTAAGGGTGCAACTA
AAACAGTTTGCATGAAGGTCTACGGGAAGTGAAGGTGCTGGCAGGTCTTCAGCACCCCAATATTGTTGGCTATC
ACACCGCGTGGATAGAACATGTTCAATGTGATTACGCCACGAGCAGACAGAGCTGCCATTGAGTTGCCATCTCTGG
AAGTGCTCTCCGACCAGGAAGAGGACAGAGAGCAATGTGGTGTAAAAATGATGAAAGTAGCAGCTCATCCATTA
TCTTTGCTGAGCCCACCCAGAAAAAGAAAAACGCTTTGGAGAATCTGACACTGAAAATCAGAATAACAAGTCGG
TGAAGTACACCACCAATTTAGTCATAAGAGAATCTGGTGAACCTTGAGTCGACCCTGGAGCTCCAGGAAAATGGCT
TGGCTGGTTTGTCTGCCAGTTCAATTGTGGAACAGCAGCTGCCACTCAGGCGTAATTTCCACCTAGAGGAGAGTT
TCACATCCACCGAAGAATCTTCCGAAGAAAATGTCAACTTTTTGGGTGACACAGAGGCACAGTACCACCTGATGC
TGCACATCCAGATGCAGCTGTGTGAGCTCTCGCTGTGGGATTGGATAGTCGAGAGAAACAAGCGGGGCCGGGAGT
ATGTGGACGAGTCTGCCTGTCTTATGTTATGGCCAATGTTGCAACAAAATTTTTCAAGAATTGGTAGAAGGTG
TGTTTTACATACATAACATGGGAATTGTGCACCGAGATCTGAAGCCAAGAAATATTTTTCTTCATGGCCCTGATC
AGCAAGTAAAAATAGGAGACTTTGGTCTGGCCTGCACAGACATCCTACAGAAGAACACAGACTGGACCAACAGAA
ACGGGAAGAGAACACCAACACATACGTCCAGAGTGGGTACTTGTCTGTACGCTTCACCCGAACAGTTGGAAGGAT
CTGAGTATGATGCCAAGTCAGATATGTACAGCTTGGGTGTGGTCTGCTAGAGCTCTTTCAGCCGTTTGAACAG
AAATGGAGCGAGCAGAAGTTCTAACAGTTTAAAGAACTGGTCAGTTGCCGGAATCCCTCCGTAAGAGGTGTCCAG
TGCAAGCCAAGTATATCCAGCACTTAACGAGAAGGAACCTCATCGCAGAGACCATCTGCCATTGAGCTGCTGCAGA
GTGAACTTTTCCAAAATTCTGGAAATGTAACTCACCTACAGATGAAGATAATAGAGCAAGAAAAAGAAATTG
CAGAACTAAAGAAGCAGCTAAACCTCCTTTCTCAAGACAAAGGGGTGAGGGATGACGGAAAGGATGGGGGCGTGG
GATGAAGTGGACTTAACTTTTAAAGGTAGTTAACTGGAATGTAAATTTTTAATCTTTATTAGGGTATAGTTGGTA
CAATGCTTCGTTGTATTTAGTAAGCCTTTACAAGACTTGTTAAAGATGTCAGAGTGCCCCAAGCTGCCGTTCTT
CCCTTCCTGCCCCACAAGCTCCTTTTCTGAATTTCTACCTAAATATTAACCATATGCCTAGTCTCTGAAACTA
AAAATTTGGACCTCATCCTCAATTATTTTCTCCTTTCAACTCTGTTGACCCTCTGTCTGGTCTTCTCTAGAAGG
TTCTACCGCAGAAATTGATGTGTGCTCCCTGCCCTCGTCACTGCCCAAGCCCGGGCCTGCACATACTCACTGGAC
TGTTCCAGTTTTGACAGCTGCCAGTCTTCTGCCCCCTTTCACACTGCAGCTGAAGTTCATTACCTGAAGGACGCC
TCATCATTTTCATTCTTGGCTCCAAACCTTCTGCTGCCTCTAAGATAAAAGCTCAACTTCTTAACAGTGTACAGT
GTGCAACTTCCAACCTTTTTATCTGTTCTCTCCACCTTCAGTTTAGCGTCATTCCAAAACCACACCCTTGCAAG
CTTTGTACTCCGCACCCAGATGATCTCCAGGCAGCTCAGATCTCTTTCCTGCCTTTGCCCTGCACTGTTCCCCG
GTAATTCCTCCTTTATTGTAGCACTCAGCTCCCCAGCCAATCTGTACATCCCTCAGAGGCAGCGATCTGATGAAT
TGGTTTTTGAATCCCAGAAAGGTCTGCCATGGAGTTGGCAGTCATCACGGTAGATGGCGTATGATTTTGCTGAA
TTTTAAATAAAATGAAAACCATAAAAAAAAAAAAAAAAAA

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FIGURE 2181

MQGGNSGVRKREEEGDGAGAVAAPPAIDFPAEGPDPEYDESDVPAEQVLKEPLQQPTFPFAVANQLLLVSLLEH
LSHVHEPNPLRSRQVFKLLCQTFIKMGLLSSTFCDEFSSLRLHHNRAITHLMRSAKERVQRDPCEDISRIQKIR
SREVALEAQTSTRYLNEFEELAILGKGGYGRVYKVRNKLDGQYYAIKKILIKGATKTVCMKVLREVKVLAGLQHPN
IVGYHTAWIEHVHVIQPRADRAAIELPSLEVLSDQEEDREQCGVKNDSSSSSIIFAEPTPEKEKRFGESDTENQ
NNKSVKYTTNLVIRESGELESTLELQENGLAGLSASSIVEQQLPLRRNSHLEESFTSTEESSSEENVNVLGQTEAQ
YHMLMLHIQMLCELSLWDWIVERNKRGREYVDESACPYVMANVATKIFQELVEGVFYIHNMGIVHRDLKPRNIFL
HGPDQQVKIGDFGLACTDILQKNTDWTNRNGKRTPTHTSRVGTCLYASPEQLEGSEYDAKSDMYSGLGVVLELFLQ
PFGTEMERAEVLTGLRTGQLPESLRKRCPVQAKYIQHLTRNSSQRPSAIQLLQSELFQNSGNVNLTLMKIIEQ
EKEIAELKKQLNLLSQDKGVRDDGKDGGVG

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FIGURE 2182

ATGCAGGCCATCAAGTGTGTGGTGGTGGGAGACGGAGCTGTAGGTAAACTTGCCTACTGATCAGTTACACAACC
AATGCATTTCCCTGGAGAATATATCCCTACTGTCTTTGACAATTATTCTGCCAATGTTATGGTAGATGGAAAACCG
GTGAATCTGGGCTTATGGGATACAGCTGGACAAGAAGATTATGACAGATTACGCCCCCTATCCTATCCGCAAACA
GATGTGTTCTTAATTTGCTTTTCCCTTGTGAGTCCTGCATCATTTGAAAATGTCCGTGCAAAGTGGTATCCTGAG
GTGCGGCACCACTGTCCCAACACTCCCATCATCCTAGTGGGAATAAACTTGATCTTAGGGATGATAAAGACACG
ATCGAGAACTGAAGGAGAAGAAGCTGACTCCCATCACCTATCCGCAGGGTCTAGCCATGGCTAAGGAGATTGGT
GCTGTAAAATACCTGGAGTGCTCGGCGCTCACACAGCGAGGCCTCAAGACAGTGTTTGACGAAGCGATCCGAGCA
GTCCCTGCCCCGCTCCCGTGAAGAAGAGGAAGAGAAAATGCCTGCTGTTGTAA

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FIGURE 2183

MQAIKCVVVG DGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPQT
DVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPIILVGTKLDRDDKDTIEKLKEKKLTPITYPQGLAMAKEIG
AVKYLECSALTQ RGLKTVFDEAIRAVLCPPPVKKRKRKCLLL

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FIGURE 2184

GCCGCCGCCGCCATGAACATTTTCCGGCTGACTGGGGACCTGTCCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAACT
CGTTACCTGGATCTTTTTACTTCATTTATTTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCCTGCTCC
TATGCCACAGTGATACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCCCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCATATAAGTGCCAAAGACCATCACCAGCATC
TGTCTTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAAATCAGAACT
TAACCTTTTTGTTGCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCTTATCTTTTTTTATTACTGTGTACAAAGATTTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTTGGCAAAGATGAGCTGTATTGT
TGAAATCTGAGACACTATGTTCAATTGG

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FIGURE 2185

MNIFRLTGDLSHLAAIVILLLLKIWKTRSCAGISGKSQLLFALVFTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEILWTFISIYLESVAILPQLFMISKTGEAETITTH
YLFFLGlyRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSLPA

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FIGURE 2186

ATGAGCGACATCGCCACTCGCTGCTGCGCCGCGATGCGCTGAGCGCCGCCAAGGAGGTGTTGTACCACTGGAC
ATCTACTTCAGCAGCCAGCTGCAGAGCGCGCCGCTGCCCATCGTGGACAAGGGCCCCGTGGAGCTGCTGGAGGAG
TTCGTGTTCCAGGTGCCCAAGGAGCGCAGCGCGCAGCCCAAGAGACTGAATTCCCTTCAGGAGCTTCAACTTCTT
GAAATCATGTGCAATTATTTCCAGGAGCAAACCAAGGACTCTGTTTCGGCAGATTATTTTTTCATCCCTTTTCAGC
CCTCAAGGGAACAAAGCCGATGACAGCCGGATGAGCTTGTGGGAAACTGGTCTCCATGGCGGTGGCTGTGTGT
CGAATCCCGGTGTTGGAGTGTGCTGCTCCTCGGCTTCAGCGGACGCCCGTGGTTTACTGTGTGAGGTTAGCCAAG
GCCCTTGTAGATGACTACTGCTGTTTGGTGCCGGGATCCATTTCAGACGCTGAAGCAGATATTCAGTGCCAGCCCCG
AGATTCTGCTGCCAGTTCATCACCTCCGTTACCGCGCTCTATGACCTGTCATCAGATGACCTCATTCCACCTATG
GACTTGCTTGAAATGATTGTACCTGGATTTTGGAGACCCAAGGTTGATTCTCATCACTTTTTTAAATACTCCG
ATTGCGGCCAATCTGCCAATAGGATTCTTAGAGCTCACCCCGCTCGTTGGATTGATCCGCTGGTGCGTGAAGGCA
CCCCGGCTTATAAAAGGAAAAAGAAGCCCCCTTATCCAATGGCCATGTCAGCAACAAGGTACAAAGGACCCG
GGCGTGGGGATGGACAGAGACTCCCACCTCTTGTAATACTCCACCTCAGCGTCTGCAAGTGCTCATGACG
CTGCAGCTGCACCTGACCGAGAAGAATCTGTATGGGCGCTGGGGCTGATCCTCTTCGACCACATGGTCCCGCTG
GTAGAGGAGATCAACAGGTTGGCGGATGAACTGAACCCCTCAACGCCTCCCAGGAGATTGAGCTCTCGCTGGAC
CGGCTGGGCGCAGGCTCTGCAGGTGGCCATGGCCTCAGGAGCTCTGCTGTGCACGAGAGATGACCTGAGAACCCTG
TGCTCCAGGCTGCCCCATAATAACCTCCTCCAGCTGGTGATCTCGGGTCCCGTGCAGCAGTCGCCTCACGCCCGC
CTCCCCCGGGGTTCTACCCCCACATCCACACGCCCCCGCTGGGGCTACGGGGCTGTCCCGGCCACCCCGCCGCC
CACCCCGCCCTGCCCACGCACCCCGGCCACACCTTCATCTCCGGCGTGACCTTTCCCTTCAGGCCCATCCGCTAG

GCTGGCCCGTGTGTGCCTTCTGCGCTCTCGCTGGACGAAGCCTTTTCGAGATGGAAGGGGTGGCCGGACTCCCAGA
AGAGAACCTCGGGGAAGGGGTGCGGCAGCCCCCTCCCCGCCGCGCAGAACCGTCTTGGTGTACGGAGTCCAGGTGC
TTCCACCCGGTTCGATTCTTTGACATGCAGATTGGATGGTGGAGGGAAGAGTCCAGCCTCTGCCGAGAGCCTGC
TGCGTGCATTTTTAAAGATGCCGATCCTGGGAGCCTCTGTTCTCTGCGCATTTTCAGACACAGCCTGTGTGGCGA
GGAGTGTGACGGCAGGAGCCACGGGTGCAAGCCCGTGTGTCTGGCCTCTTTCCTCGTGAAGACGATGTGTCCCCG
CCAGAAAAAGTGGGCACCTTCTGCAGCCCCGTGAGCTGAGCCAGGCTGCGTAGTGACCACAAGCTTATGTGCAG
CACTGCTCAGGGAGGCTGTGAGGAATTCCTTCACCTCGGAAAGGAACCTTCTCAGTTTTATTGGGGGTGTCTAAA
TTTCCTTTCATATGTTCAAATAAATTTTCTAAACAGT

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FIGURE 2187

MSDIRHSLRRDALSAAKEVLYHLDIYFSSQLQSAPLP IVDKGPVELLEEFVFQVPKERSAQPKRLNSLQELQLL
EIMCNYFQEQTKDSVRQIIFSSLFSPQGNKADDSRMSLLGKLVSMAVAVCRIPVLECAASWLQRTPVVYCVRLAK
ALVDDYCCLVPGSIQTLKQIFSASPRFCCQFITSVTALYDLSSDDLIPMDLLEMIVTWIFEDPRILILITFLNTP
IAANLPIGFLELTPLVGLIRWCVKAPLAYKRKKKPPLSNGHVSNKVTKDPGVGMDRDSHLLYSKLHLSVLQVLMT
LQLHLTEKNLYGRLGLILFDHMVPLVEEINRLADELNPLNASQEIELSLDRLAQALQVAMASGALLCTRDDLRTL
CSRLPHNNLLQLVISGEVQQSPHAALPPGFYPHIHTPPLGYGAVPAHPAHPALPHTPGHTFISGVTFPFRPIR

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FIGURE 2188

GGCACGAGGAAGCTACTCAGATAAGAGGCTCCAAGAGGACATTTTTGGATGTGAAAAACAATGAGAAGGAGGACA
ACACACATTTACAATCGTCTTAATTTTGTACTCAGAAAAAGGATGTGAAGACAATGCACAGGGAATACAATAGTT
TCAGATCTGTGTACAGTTTCCTTTTGCTTCATCTCCTGCAACAATGTAATGAAGACACCATGATATCATTAAACAT
TTCACACAAAAAGGAAAAATGAGGCTGAAATGGTGTGGGCAAGGCCAGGAATCTGGAGCATCCCTAACCAAGCAGC
AGAGCACCTGGGATAGAGAAAGTGCTCAAGAATGTTCACTTACTGATTACTACAATCAAAAAAGATACGACACT
AATTTACCACATTCTTCTTACTTATTTTATGAGATACTATTCTTCCAAGGTGGAGAAAGTGGAGAAAGTAGAGTG
ACGCAGCTAAGGGAGTAAATCGACCCTCAGCCAACAAGTGGCAAAAGCCTGAAGAAAGTGATCAAGATCACTGAT
GACCCCGCGGCCCATCTCCAAGGGGGCGGGTATCACAAACCCGACGCCACACCACGTATCATTCCGCAAACTCC
CGCGCCTCCACGCAGAACTGGCAAGAGGGAAGGCGAGACAGCAGTGAACAGCTGGTACGCAGCACCCACAGCAC
CGCGGCAGCAGCTAGTGCCGACTCCCGCCTAGCTCTTTTGACTCTGTTTCGCGGGAAGAATGGGGAAACAGTAAGG
TTGCGGCGCCTCCCGCGAGACGAGGTACCTGAGGCTGGCCCCGAGTCCCCCGCCGACCAGCACCGGAGCTTCA
CACCCCACTTCCGGGGTCAAGTCACCGCCGGGAATCCTGTGATCGCAGAAAGGTAGTCTCAGGTTCCGCCCCAT
CCAAGTCCCGCCTCCACTGCCTCTCGCCCTGTATCTGTCAACTTCCGGGACGCCGCGCGTCACTAAGCAGCCAAT
CTCCACTTCCGGACTCATCCAGCCCCTTCTCCACCCCTTTCAGAGACAGCGGATTGCGATTTAGGTTTCCGCGC
ATTTAATTGGCGAAGCTGGAGCGCTAGTCTTCGCTGATTGGTGCCGAGAAATCTGCCCCATAGACACCCGCGGGG
CGCACAGTTTCAGTCGTCCGTGGGTTTCCCGCCAGCCGAGTCTTGGACCATAATCATGGTGGACATGATGGACT
TGCCAGGTCGCGCATCAACGCCGGCATGCTAGCTCAATTCATCGACAAGCCTGTCTGCTTCGTAGGGAGGCTGG
AAAAGATTATCCCAACCGGAAAAATGTTTATTCTTTTCTTTCAGATGGAGAAGGAAAAAATGGAACCATCGAGTTGATGG
AACCCTTGATGAAGAAATCTCTGGAATTGTGGAAGTGGTTGGAAGAGTAACCGCCAAGGCCACCATCTTGTGTA
CATCTTATGTCCAGTTTAAAGAAGATAGCCATCCTTTTGATCTTGGACTTTACAATGAAGCTGTGAAAATTATCC
ATGACTTCCCTCAGTTTATCCTTTAGGGATTGTGCAACATGATTGATCTTGGATGGATTTTCATACGATTGTAAA
TGAGCTATATTAAAGTCTATTAAAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2189

MVDMMDLPRSRINAGMLAQFIDKPVC FVGRLEKIHPTGKMFI LSDGEGKNGTIELMEPLDEEISGIVEVVGRVTA
KATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD

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FIGURE 2190

CAACCGAATGGTCAACCATTTTATTGCTGAGCTCAAGCGCAAGCATAAGAAGGACATCAGTGAGAGCAAGAGAGC
TGTAAGATGCCTCCGTACTGCTTGTGAACATGCTAAGCGTACTCTCTCTTCCAGCACCCAAGTCAGTATTGAGAT
CGATTCTCTCTATGTAGGAATTGACTTCTATACCTCCATTACCTGTGCCCAGTTTGAAGAATTGAATGCCTGGGG
GATTCCCTGTTGGTGGAGCTCCTCCTTCTGGTGGTGCTTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCA
ACCCAAGTATAGATGTAGCATTGTTCCACACATTTAAAACATTTGAAGGACCTAAATTTGTAGCAAATTCGTGG
CAGTTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGG
GGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAAAATGCAATGTCTTAAATAAACTATTTA
AAATTGGCACCAT

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FIGURE 2191

CAGCCATCCTGTCTGGAGACAAGTCTGAAAATGTTCAAGATTTGCTGCTCTTGGACGTCACTCCTCTTTCCCTTG
GTATTGAAACTGCTAGTGGAGTCAATGACCATCCTCATCAACTGTAATACCACCATTTCCTACCAAGCAGACACAGA
CCTTCATTACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGTGAGCGTGCCATGTCCAAGG
ATAACAACCTGCTTGGCAAGTTTGAATTACAGGGCATACTCCTGAACCCCAAGGTGTTCTCAGATTGAAGTCA
CTTTTGACATTGATGCCAATGGTATCCTCAGTGTCTCTGCTGTGGACAAAAGTACAGGAAAAGAGAATAAAATTA
CTATCACTAATAATAAGGGCCATTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAATTTAAAAAG
CTGAAGATGAGAAGCAGAGGGACAAGGCGTCATCCAAGAATTCACCTGAGTCCTATGCATTCAACATGAAAGCAA
CTGTGGAAGATGAGAACTTCAAGACAAGATTAATGATGAGGACAAACAGAAGATTCTGGACAGGTGTAATGAAA
TTATCAACTGGCACATAAGAATCGGACTGCCAAGAAGGAAGAATTTGAACATCAGCAGAAAGAGCTGGAGGAAC
TTTGCAACCCAATCATCACCAAGCTGTACCAGAGTGCAGAAGGCATGCCAGGAAGAATGCCTGGGGGATTCCCTG
TTGGTGGAGCTCCTCCTTCTGGTGGTGTCTCCTTAGGGCCCACCATCGAAGAGGTTGATTAAGCCAACCCAAGTA
TAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTTGTAGCAAATTCCTGTGGCAGTTTTAA
AAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATATGCACAGGGGAAGGAAA
TAACATTGCACTTTATAAACACTGTATTGTAAGTGAAAAATGCAATGTCCTTAAATAAACTATTTAAATTTGGCA
CCAT

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FIGURE 2192

MTILINCNTTIPKQTQTFITYSDNQPGVLIQVYEGERAMSKDNNLLGKFETGIPPEPQGV PQIEVTFDIDANG
ILSVSAVDKSTGKENKITITNNKGHL SKEDIERMVQEAEN

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FIGURE 2193

CCGTAGTGTCTCATTGCAGATAATTTTTAGCTTAGGGCCTGGTGGCTAGGTCGGTTCTCTCCTTTCCAGTCGGAG
ACCTCTGCCGCAAACATGCTCCGCCAGATCATCGGTCAGGCCAAGAAGCATCCAAGCTTGATCCCCCTCTTTGTA
TTTATTGGAAGTGGAGCTACTGGAGCAACACTGTATCTCTTGGCTCTGGCATTGTTCAATCCAGATGTTTGGTGG
GACAGAAATAACCCAGAGCCCTGGAACAACTGGGTCCCAATGATCAATACAAGTTCTACTCAGTGAATGTGGAT
TACAGCAAGCTGAAGAAGGAACGTCCAGATTTCTTAAATGAAATGTTTCACTATAACGCTGCTTTAGAATGAAGGT
CTTCCAGAAGCCACATCCGCACAATTTTCCACTTAACCAGGAAATATTTCTCCTCTAAATGCATGAAATCATGTT
GGAGATCTCTATTGTAATCTCTATTGGAGATTACAATGATTAAATCAATAAATAACTGAAAAAAAAA

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FIGURE 2194

MLRQIIIGQAKKHPSLIPLFVFIGTGATGATLYLLRLALFNPVCWDRNNEPWNKLGPNQYKFYSVNVDSKLG
KERPDF

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FIGURE 2195

GCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGG
CCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATC
AAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACAATGTT
ACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATGTGCGT
ATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAAGAAA
GAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTC
ATGGCATAATAGGTGTT

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FIGURE 2196

MTNTKGKRRGTRYMFSPFRKHGVVPLATYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYNVTQHAVGIV
V NKQVKGKILAKRINVRIEHIKHSKSRDSFLKRVKENDQKKKEAKEKGTWVQLKRQPELLEPIPYEFMA

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FIGURE 2197

GCTCGGGCGCGGGGCGTTCTTGGTGCGCCGGGCCGTGGTGAGTCCGGGCTCCCGTGGCCGCGTGCTGGGAGGAGA
CTGGAGCCCGGTTAGGAAGAATGGAGTTGGCGACTCGCTACCAGATCCCTAAAGAAGTGGCTGACATCTTTAACG
CCCCAGTGATGATGAAGAGTTTGTGGCTTCCGAGATGATGTTCCCATGGAAACCTCTCGTCAGAGGAGAGCT
GCGATAGTTTTGACTCACTAGAGTCAGGGAAACAGCAGGATGTGCGCTTTCATTCCAAATACTTCACAGAAGAGC
TAAGAAGAATTTTATAGAGGACACTGACTCAGAGACTGAGGATTTTGCAGGATTTACGCAGAGTGATCTGAATG
GAAAGACTAACCAGAAAGTAATGGTCGTGGAGTCAGATTTGAGTGATGATGGCAAAGCATCTTTGGTGAGCGAGG
AAGAGGAAGATGAAGAAGAAGATAAGGCTACCCCTAGAAGAAGCAGGICTAGAAGAAGTAGTATTGGTCTTCGAG
TAGCCTTTCAGTTCCCCACCAAGAAGCTGGCCAACAAACCAGATAAAAACAGTTCTTCCGAGCAGTTGTTTTCTA
GCGCACGCTTACAGAATGAGAAAAAACAATTCTTGAAAGAAAGAAAGACTGTAGACAGGTGATACAAAGGGAAG
ATTCTACCTCTGAGTCTGAGGATGACTCTCGGGATGAGAGCCAGGAGAGTTCAGATGCTTTGCTGAAAAGGACCA
TGAACATCAAGGAGAAACAAGCCATGCTTGCCAGTTATTGGCGGAATTGAACTCGATGCCAGATTTCTTCCAG
TACGAACCCCAACCTCAGCTTCTAGGAAGAAGACAGTGAGGCGGGCCTTCTCGGAGGGACAGATCACGCGGCGTA
TGAACCCAACCCGGAGTGCGCGGCCCTCCTGAGAAGTTTGCTCTAGAGAACTTCACTGTCTCAGCCGCTAAATTTG
CGGAAGAGTTTTACAGCTTCCGAAGAAGGAAGACAATTGGGGGGAAATGCCGGGAGTACAGACGACGTCACCGTA
TATCTTCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAATGTTGCCATAACTGTTTCGAGATAAAA
TCTATGATAAAGTTCTGGGTAACACGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGTGTGTCGGA
ACCAGGGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATGTCAGAT
CGGCATTGCTGGACCCGATTGGGTGTGTCCCCCTGTGCTGGGATCTGCAATTGCAGCTACTGTGCGGAAGCGTG
ACGGCCGCTGTGCCACAGGAATCCTCATTCTGCGCAAGTTTTATGGTTATGACAATGTTAAGGAATATCTGG
AGAGCTTACAAAAGGAGCTGGTAGAAGACAATTAAGAGGAAAACAAACAGAACCAGCCACCTCACCATAGAGTAC
TCCAACAAGACATGCATACCATTTGGTGCCTAAGATTTATTAAAACCTTGAAGTGAACAAAAGGGGACCATCAACATT
GTAGACACTGGACACTGGAGGCCTTACAGAGTGCTAGCCTCTTCTTTCAGGACTCACCTGGGGCCTGCTGCTTTT
ATATTTTGAAAGAGTTTAAGGGCTAATAATTTAATTTGTTGTTTGTAAATAATCTCCGTTCTTTCCGGC
TGCATTGCTTTTGCATGTTACATATGATGTACTTTTATGATGTACTTTTTTTTTTTTGAGATGGAGTCTTGTTT
TGTTGCCCAGGAGGGAGTGAGTGGTGCAACCTCGGCTCACTGCAACCTTTGCCTCCTAGGTTCAAGTGATTCTC
CTACCTCCTGAGTAACTGGGATTACAGTCGTGTGCCACCACGCTCAGCCCTGAGTTAGTTTCTAGTATTTTTTTC
TGACTTTCCTCTAAGGATAGCGTTGAAAAAGAATGCACGTGTGAGTTACTAAAAAGTTAGAATAATGTGCATG
GGAACAGTGCAGCAACATGCTAGAAAATCCTCACTGCACTCCAGCAGAGGCTAGAGGAATGCCAGTGTTACCTTA
CGCTTCTAGAAGCAGAGCCACTCCAGCCAGAACCCATTTTGCAGTCTTCTCTTCGCTCTTCAGCCTGAAGGTCCA
GATGTAGCTGGGGCCTCTCAGTTTGGTTCTATACACAGGGCACTCGTAGGTCTGTTTGGTTTCTTGTCTGTCCAC
GGGGGTGGCTTTTGCAAAGATGACCGGCATAGGGCATGCCAGCTCCTTGAGACGGGCTTCAACAATGGTTCTGCTG
TTGGGTGTCCAGCGGGCGCCTATGGCAAAAACACAGCGTTGCAATTGTGTGGCAGCTTGCTACTAATGATAAT
GATCAAGTAAGTTGTTTGATGCAATAAACATTCAACATTCTGGTTTTGTCAT

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FIGURE 2198

CTTTTTCGCAACGGGTTTGCCGCCAGAACACAGGTGTCGTGAAAACCTACCCCTAAAAGCCAAAATGGGAAAGGAA
AAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTTCAGGCAAGTCCACCACTACTGGCCATCTGATCTAT
AAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACCTAATTGTCGGTGTAAACAAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTAAAGGAATCAGCACTTACATTAAGA
AAATTGGCTACAACCCCGACACAGTAGCATTGTTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCAA
GTGCTAACATGCCTTGGTTCAAGGGATGGAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCACGCTGCTTG
AGGCTCTGGACTGCATCCTACCACCAACTCATCCAACCTGACAAGCCCTTGCGCCTGCCTCTCCAGGATGTCTACA
AAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCCGGTATGGTGGTCACCT
TTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTG
GGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCAACGTCGCTGGTGACAGCA
AAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACCATCCAGGCCAAATAAGCA
CCGGCTATGCCCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTG
ATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCTGGTGTGCTGCCATTGTTGATATGG
TTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTGCTTTGCTGTTCTGTGATATGA
GACAGACAGTTGCGGTGGGTGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTG
CCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAGAA
TGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTTAATGATAACAATGCATC
GTAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTTCGTGTGGCAGTTTTAAG
TTATTAGTTTTTTAAATCAGTACTTTTTAATGGAAACAACCTGGACCAAAAATTTGTCACAGAATTTTGAGACCCA
TT

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FIGURE 2199

MLEPSANMPWFKGWKPTRKDGNASGTTLLEALDCILPPTHPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPG
MVTTFAPVNVVTEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMEAAGFTAQVIILNHP
GQISTGYAPVLDCHTAHIACKFAELKEKIDRRSGKKLEDGPKFLKSGDAAIVDMVPGKPMCVESFSDYPPLGRFA
VRDMRQTVAVGVKAVDKKAAGAGKVTKSAQKAQKAK

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FIGURE 2200

GAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGAT
TACAGGGACATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAAC
ATTGTCGGTGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
TCAGCACTTACATTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTG
ACAACATGCTGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCA
GTGGAACCAACGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGC
CTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCCGTGGCCGAGTGGAGACTGGTGTTCTCAAAC
CCGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACGGGAAGTAAAATCTGTCGAAATGCACCATGAAGCTT
TGAGTGAAGCTCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTGCTGGCA
ACGTCGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGGTGATTATCCTGAACC
ATCCAGGCCAAATAAGCACC GGCTATGCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTG
AGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAATATGGTTCCGTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAG
ACTATCCACCTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGG
ACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCAGAAAGCTCAGAAGGCTAAATGAATATTATCCC
TAATACCTGCCACCCCACTCTTAATCAGTGGTGGAAGAA

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FIGURE 2201

MVTTCSQVLTCLGTMLLEALDCILPPTRPTDKPLHLPLQDVYKIGGIGSVPVGRVETGVLKPGMVVTFAPVNV
TEVKSVEMHHEALSEALPGDNVGFNVKNVSVKDVRHGNVAGDSKNDPPMEAAGFTAQVIILNHPGQISTGYAPVL
DCHTAHIACKFAELKEKIDHRSGNMVPGKPMCYESFSDYPSLGCFVRDMRQIVTVGVKAVDKKTAGAGKVTKS
AQKAQKAK

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FIGURE 2202

TATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCC
TTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGG
AAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGGGACTTCATCAAAAACATGATT
ACAGGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTTGGTGAATTTGAAGCTGGTATCTCC
AAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACATAATTGTCGGTGTTAAC
AAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAATCAGCACTTACATTA
AGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGC
CAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACACGCTGC
TTGAGGGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGCTCTT
CCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTTCGTGGCAACGTCGCTGGTGAC
AGCAAAAATGACCCACCAATGGAAGCAGCGGGCTTCACTGCTCAGG

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FIGURE 2203

GTGAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGA
TTCAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATT
TGAGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCG
TGAACGTGGTATCACCATTGATATCTCCTTGTTGGGGCAGACCCGAGAGCATGCCCTTCTGGCTTACACACTGGGT
GTGAA

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FIGURE 2204

GAAAACTACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATT
CAGGCAAGTCCACCACTACTGGCCATCTGATCTATAAATGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTG
AGAAGGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGCGTG
AACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCC
GGGACATCTCAGGCTGACTGTGCTGTCCTGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGG

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FIGURE 2205

CTCTCTCCGGTCCATGCCTCCAAGATGACAAAGAAAAGAAGGAACAACGTTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAACGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCTGCAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TGTGTGAAGCTACATTACTGTGTGAGTTGTGTAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCGCACGTCCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGACTATTCTCTGGAGAAAAATAAAATGGACATTGTACTTAAAAAAAACA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2206

CCGTGATGTGGCGCCTGCACAXTCCTTTCCCTTTTCGGATTCCCGACGCTGTGGTTGCTGTAAGGGGTCCTCCCTG
CGCCACACGGCCGTCGCCATGGTGAAGCTGAGCAAAGAGGCCAAGCAGAGACTACAGCAGCTCTTCAAGGGGAGC
CAGTTTGCCATTCGCTGGGGCTTTATCCCTCTTGTGATTTACCTGGGATTTAAGAGGGGTGCAGATCCCGGAATG
CCTGAACCAACTGTTTTGAGCCTACTTTGGGGATTAAAGGATTATTTGGTCTTCTGGATTGGAGGCAATCAGCGG
ACAGCATGGAAGATGTGTGCTCTGGCTCGGATAAGAGATGGGACATCATTCACTAGTTGGATGGCACAAGG
CTCTTCACAGACGCATCTGTAGCAGAGTGGAAGTGTACTAACTTATGATAGAATGTATCAGAATAAATGTTTTT
AACAGTGTA

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FIGURE 2207

MVKLSKEAKQRLQQLFKGSQFAIRWGFIPLVIIYLGFKRGADPGMPEPTVLSLLWG

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FIGURE 2208A

GGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATATCGGGTGATGTTGAG
AAAGGCAAGAAGATTTTTATTATGAAGTGTTCACAGTCCACACCGTTGAAAAGGGAGGCAAGCACAAGACTGGG
CCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTGAGGCCCTGGATACTCTTACACAGCCGCCAATAAGAAC
AAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAA
ATGATCTTTGTCCGCATTAAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAAAGCTACTAATGAG
TAAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGTACCATCCTTTAAT
AGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCTGATTTAAACTAA
GACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTTTGAATTTTAAATAGTAAGTCCAAATTCAGTAAATGGTATCAC
TGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGATGGTGAGTGCCATC
TTAAAACTTACTGGAGATTGGTTTTATATTTAGATTTATATACTGGTTATGTGAATATATTTAAATACTGGGGA
AATTGCTTCACTGTCTTAGAACCAAGCAAGATTACCTGTGTTTTGTGTTTCATGTTTCATTTGCCTCTTAAAGGCA
AGGGTTGAAGATAAATAAGGTTGCAATGTCTATAGTTTTGGCCTTAACTATGCCAATCTAATTATAATTCCTGT
ATTTAAAAATGGTTTTCTTTACTTATTGAAAGGCATTTTAGTGTGGTTTTATGTGTAATATTAAGATTATTCAACA
CCTCTCACATCTTACAGATCTATAAGGTCACATGCTTTTAAATAGTAGCAAGTTAACTTCACTCTTGAATTCT
TTACAATCTAAGTCAAACCTAAGTTATAATTTAGGATTGTCTTTAAACAGCCATTCAGAAACAAAAGTGTAGAACT
GTGTATTTGATTGGGAATGGTGCTTTTGCCAACCTTAAAGGATTAAAGTAACGGAGATATACACAAATTTTAAAA
TTATGTGTGATCACAAGACTAAAGATAATTAAAAAGAAAACACAGATCATGACTTTTTGACTGTGCTTGATTTT
ATGACTGATGCACAAATTTAATGATTAAGAAAGTGCAGGAGCCCTAAATGTCAGTGCAGCAGCCCTAAATGTCAG
TGCAGCAGTGTTAACCAGTCATGGTGCTAGATTGTTTACTTGGTTTTCTAGGACTGCCTCACTAGATAAACACT
TCACTAATTGACTCTTAGTTTTCTTGTCTCAGATTGAGAACTGCAGCATTTATGCCAGACATGGACAGAGGAATGC
CTGTGGTCATAGTTTTGTGATGTGTAACAGTGTATAATTACATACTGAATTATTTTCATGCATAGTCTGTGCCATA
CACATTTAGAGTAGTCCTTGGAGATTTTATGGAGATGGTGAGCACAAGGTAAGTCATAAAGAATAATGAGAAAAT
AAATCTATGCTGGTGCAGCTGAGAACTGTATCTTTGTGGGACAGTGAGAAGACTGAGAAGATGTGAATCCATGGT
CTCAAAGGTGATAGGGACGATTAGATAGGTGTTTTAAGGCCTGAAAGCAATTTATAACATATGAGTCTTATTTTT
ATTTATAGAAATGTGGAAAGCTTGCTGTAATTCATATTTGAAGTCCTAGTCTGAGTTCTGGTGGGGAATTTAAAA
ATGCATCCTGGAAATCCTTTAAAGATTTTCAAGCTTTGAAAGGCCTTGAGCAGAGGACTTGGTGACTGTATAAAG
TTAGTGGTATTCAGGGACAGTGTAGCAAGTAGCTTACAAGGGGACAATTCCTGGACTAATGAGAAAGACCTGAAGT
GAAGGCTAGAGAGTTGATTTTTTTTTTTTTTGGCATCCTGGAAATGATACAGGAAACATATTAAGATAGATACAG
AAATGTGTTCAACCTTCCATCTTGGCTAGTTGTGGCGTTTTAGTTTGTTTTTTGAGACATGGTTCACGCTGTGTGCG
CAAGGCTGGAGTGCAGTGGTGCATCTCGGCTGGCTGCAGCCTCTATTTCCAGGCTCAAGCGATTCTCTCACTT
CAGCTTCCCAAGTAGCTGGGACTGCGGGTGTTCGCCACCATGCCAGCTAATTTTTTTGTAGAGATGGAGTTTTG
CCATGTGGTCCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGCAATCCGTCCACTTGCCTTGGCTCCCCAAGTGCT
GGGATTGCAGGCGTGAGCCACCAGGCCCTGCCTGGTTTTTCAAATTCAGAAATCTTATTATTTAACCAGAAAGTAA
TCAGCCCAGTAGTAACTTAGGTTTAAATTTTTTTTTCAGGTTTAAATTTTTTCTCATTATTTTTTCTGAGACGGAG
TTTTCGCCCTTTTTCGCCAGGCTGAGTACAGTGGTGCAATCTCACTGCAACCTCCGCCTTCAGTTGCAAGTGATT
CTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTGCAGGCACCCGCCACACGCCTGGCTAATTTTTGTATTTTTAG
TGGAGATGGTGTTCACCATGTTGGCCAGACTGGTCTTGGACTCCTGACCTCGTGATCCACCCACCTTGGCCTCC
CAAAGTTCTAGGATTACAGGTGTGAGCCACCAGTCCGGCCAATTTTTCTCATTCTATGCCTCCTATATTAAGG
TCTGTGTTGGCACAGATGAGTAACTGCCATGTTCTAGGTGAGTTATACCCAAGCACTTCTGGTGGTTTTAAATGT
GATTCTGTAACCTTTTTTATTTTTTATTTTTTGTAGATAATTTCACTCTTGTGTTGCCAGGCTGGAGTGCAATGGCGT
GATCGCTGCTCACCGCAACCTCCGCCTTCAGGTTCAAGCGATTCTCCTGACTCAGCCTCTCAAGTAGCTGGGAT
TACAAGCATGCGCCACCATGCCAGCTTATTTTGTGTTTTTAGTAGAGACAGGGTTTTCTCCATGCTGGACAGGCT
GGTCTTGAACCTCCGACGTCGGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCAC
CACGCCTGGCCAATTATGTAATTTTTTAAAAAGGACATTTCTATCAGGGATATATACCTTCAGAAATAAGGAAAT
AGGGGAAAAAAGAGCACTATAAACCACATGTTTTCAATTTCTAGTGCTTCGCTGTAAGTGGCTAGGTTGGTAGAA
TCAAAAACAAGGGCCAGATGTATTTAAGGGGTATTAGATGCCACCTACATGCTTATTTTGTCTAGAACAGTGCT
GTCTAATAGAATTTCTGTGACGATGGATATTTTGTAGACTTTTGTGTGCCAGTGTGGTAGCCACTAACCCACATG
TGGCTGTAAAGCCCTTGAAATATAGCTAGTGTGACTAGAAAGTATTTTATTTTAAATTTACATAGGCACAAGTGG

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FIGURE 2208B

CTAGTGGCTACTGTATTGACATTCTGGGTCTAGGACTAGAACCAGTGGTCTGTAACAAAAGTACTTTCTCTTTAC
TCTATTAAATCTAGAATTAGCCGGGCATGGTCGCTCATGCCTGTGGTCCCAGCACTTTGGGAGGCCAAGGCAGGC
AGATCACTTGAGGTCGGGCGTTTGAGACCAGCCTGGTCAACATGGCGAAACCCTGTCTCTACAAAAACATAAAA
GTTAGCCAGGTGTGGTGGTGGGCACCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCACAAGAATCACTTGAAGTT
GGGAGGTGGAGGTTGCAGTGAGCCAGGATTGTGCCACTGCACTCAAGCCTGGGTGACGAGTGAAACTGTCTCCAA
AAAAAAAAAAAAAA

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FIGURE 2209

MGDVEKGKKIFIMKCSQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGIIWGEDTLMEYLENPKKY
IPGTMIFVGIKKKEERADLIAYLKATNE

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FIGURE 2210

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC
TGAAGCGACTGAGTCCGCGCATGGAGAGAGAAAAGGAACAGTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGA
AACCACAGAAGAAAGTTTGAGGAATACTACGAACAATGGGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCC
TGCAAGCAAAAGATCAAGAGGATTTGGTTTTGTAACTTTTTTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGC
AAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAAACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAGG
GGCTCATGTAACGTGTGAAGAAGCTGTTTGTGGCGGAATTAAAGAAGATACTGAGGAACATCACCTTAGAGATTA
CTTTGAGGAATATGAAAAAATTGATAACCATTGAGATAATTACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGG
CTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAATCGTATTGCAGAAATACCATAACCATCAATGGTCATAA
TGCAGAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCAGGAAGTTCAGAGTTCTAGGAGTGGAAGAGGAGGCAA
CTTTGGCTTTGGGGATTACGTTGGTGGCGGTGGAAATTCGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATC
TGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTATAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTT
TGGAGGTAGCCCCGGTTATGGAGGAGGAAGAGGAGGATATGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGG
GGGCTACGGAGGTGGTTATGACAACATATGGAGGAGGAAATATGGAAGTGGAAATTACAATGATTTTGAAAATTA
TAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGGAACTTTGGTGGTAGCAGGAACATGGGGGGACCATA
TGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAGTGGGGTTATGGTGGGAGGAGCCGATAC**TGAG**CTTC
TTCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAGGATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTT
ATCGAAATAACAATGTTAAGGAACTCTTATCTCAGTCATGCATAAATATGCAGTGATATGGCAGAAGACACCAG
AGCAGATGCAGAGAGCCATTTTGTGAATGGATTGGATTATTTAATAACATTACCTTACTGTGGAGGAAGGATTGT
AAAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAATTGTTGTTTCTTTCTAGTGGTCTTTGTAAGAGTGTA
GAAGCATTCTTTCTTTGATAATGTTAAATTTGTAAGTTTCAGGTGACATGTGAAACCTTTTTTAAGATTTTCTC
AAAGTTTTGAAAAGCTATTAGCCAGGATCATGGTGTAAATAAGACATAACGTTTTTCCTTTAAAAAAATTTAAGTG
CGTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTTAATAAAATAATTCTAAAGGAAAAAA

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FIGURE 2211

MEREKEQFRKLF IGGLSFETTEESLRNYEQWGKLTDCVVMRDPASKRSRGFGFVTFSSMAEVDAAAMAARPHSID
GRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSGKKRGFGFVTFDD
HDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSGRGGNFGFGDSRGGGGNFGPGPGSNFRGGSDGYGSG
RGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNYNDFGNYNQQPSN
YGPMKSGNFGGSRNMGGPYGGGNYGPGSGGSGGYGGRSRY

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FIGURE 2212

AGTAGCAGCAGCGCCGGGTCCCGTGCGGAGGTGCTCCTCGCAGAGTTGTTTCTCGAGCAGCGGCAGTTCTCACTA
CAGCGCCAGGACGAGTCCGGTTCGTGTTTCGTCCGCGGAGATCTCTCTCATCTCGCTCGGCTGCGGGAAATCGGGC
TGAAGCGACTGAGTCCGCGATGGAGAAAACCTTTAGAAACTGTTCCCTTTGGAGAGGAAAAAGAGAGAAAAGGAACA
GTTCCGTAAGCTCTTTATTGGTGGCTTAAGCTTTGAAACCACAGAAGAAAGTTTGAGGAACTACTACGAACAATG
GGGAAAGCTTACAGACTGTGTGGTAATGAGGGATCCTGCAAGCAAAAGATCAAGAGGATTTGGTTTTGTAACCTT
TTCATCCATGGCTGAGGTTGATGCTGCCATGGCTGCAAGACCTCATTCAATTGATGGGAGAGTAGTTGAGCCAAA
ACGTGCTGTAGCAAGAGAGGAATCTGGAAAACCAGGGGCTCATGTAAGTGTGAAGAAGCTGTTTGTGGCGGAAT
TAAAGAAGATACTGAGGAACATCACCTTAGAGATTACTTTGAGGAATATGAAAAAATTGATACCATTGAGATAAT
TACTGATAGGCAGTCTGGAAAGAAAAGAGGCTTTGGCTTTGTTACTTTTGATGACCATGATCCTGTGGATAAAAT
CGTATTGCAGAAATACCATACCATCAATGGTCATAATGCAGAAAGTAAGAAAGGCTTTGTCTAGACAAGAAATGCA
GGAAGTTCAGAGTTCTAGGAGTGGAAAGAGGAGGCAACTTTGGCTTTGGGGATTACAGTGGTGGCGGTGGAAATTT
CGGACCAGGACCAGGAAGTAACCTTTAGAGGAGGATCTGATGGATATGGCAGTGGACGTGGATTTGGGGATGGCTA
TAATGGGTATGGAGGAGGACCTGGAGGTGGCAATTTTGAGGTAGCCCCGGTTATGGAGGAGGAAGAGGAGGATA
TGGTGGTGGAGGACCTGGATATGGCAACCAGGGTGGGGGCTACGGAGGTGGTTATGACAACCTATGGAGGAGGAAA
TTATGGAAGTGGAAATTACAATGATTTTGGAATTATAACCAGCAACCTTCTAACTACGGTCCAATGAAGAGTGG
AACTTTGGTGGTAGCAGGAACATGGGGGGACCATATGGTGGAGGAACTATGGTCCAGGAGGCAGTGGAGGAAG
TGGGGGTTATGGTGGGAGGAGCCGATACTGAGCTTCTTCTATTTGCCATGGGCTTCACTGTATAAATAGGAGAG
GATGAGAGCCCAGAGGTAACAGAACAGCTTCAGGTTATCGAAATAACAATGTTAAGGAAACTCTTATCTCAGTCA
TGCATAAATATGCAGTGATATGGCAGAAGACACCAGAGCAGATGCAGAGAGCCATTTTGTGAATGGATTGGATTA
TTTAATAACATTACCTTACTGTGGAGGAAGGATTGTAAAAAAAATGCCTTTGAGACAGTTTCTTAGCTTTTTAA
TTGTTGTTTCTTTCTAGTGGTCTTTGTAAAGAGTGTAGAAGCATTCTTCTTTGATAATGTTAAATTTGTAAGTTT
CAGGTGACATGTGAAACCTTTTTTAAGATTTTCTCAAAGTTTGTAAAAGCTATTAGCCAGGATCATGGTGTAAAT
AAGACATAACGTTTTTCTTTAAAAAATTTAAGTGCCTGTGTAGAGTTAAGAAGCTGTTGTACATTTATGATTT
AATAAAATAATTCTAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2213

MEKTLETVPLEKREKEQFRKLFIGGLSFETTESLRNYEQWGKLDCVVMRDPASKRSRGFGFVTFSSMAEV
DAAMAARPHSIDGRVVEPKRAVAREESGKPGAHVTVKKLFVGGIKEDTEEHHLRDYFEEYGKIDTIEIITDRQSG
KKRGFGFVTFDDHDPVDKIVLQKYHTINGHNAEVRKALSRQEMQEVQSSRSRGGNFGFGDSRGGGNFGPGPGS
NFRGGSDGYGSGRGFGDGYNGYGGGPGGGNFGGSPGYGGGRGGYGGGGPGYGNQGGGYGGGYDNYGGGNYGSGNY
NDFGNYNQQPSNYGPMKSGNFGGSRNMGGPYGGGNYGPGSGGSGGYGGRSRY

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FIGURE 2214

CGCTGAGGAGACTCCGGTCACTGTCCTCGCCCCGCCTCCCCCTTCCCTCCCCTTGGGGACCACCGGGCGCCACGC
CGCGAACGTAATAGCTCTTCAAGTCTGCAATAAAAAATGCGCTCCAACAAAACCTACATTGCAAAAAATGGGAAAA
AAACAGAATGGAAAGAGTAAAAAAGTTGAAGAGGCAGAGCCTGAAGAATTGTCTGTGGAAAAAGTACTAGATCGA
CGTGTAGTGAATGGGAAAGTGGAATATTTCTTGAAGTGAAGGGATTTACAGATGCTGACAATACTTGGGAACCT
GAAGAAAAATTTAGATTGTCCAGAATTGATTGAAGCGTTTCTTAACTCTCAGAAAGCTGGCAAAGAAAAAGATGGT
ACAAAAAGAAAAATCTTTATCTGACAGTGAATCTGATGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAA
CCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAGAATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTT
CTCATGAAATGGAAAGATTGAGATGAGGCAGACTTGGTGCTGGCGAAAAGAGGCAAATATGAAGTGTCTCTCAAATT
GTAATTGCTTTTTATGAAGAGAGACTAACTTGGCATTCTTGTCCAGAAGATGAAGCTCAATAATTGTTTCACATTG
TTCTTTTATATATATTTATATATATATATAAAAAATTGGGTCTTAGATTTTGATTTACTAGTGTGACAAAATAACT
ACATCCTAATGAAAATCAAGTTTGATATGTTTGTGTTTGAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTTTGCA
TCCATAGCACTGGTTACTTTGAACAAATAAATAAAAGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTT
GATACCATGGTATATCATTTTCTCTTCAATTAAGAAGCAGCTTTTCTAAATGTTGGGGGAAATGTCCATAGTCATT
ACTCAGTCAAAACTTGTGTTCTCATGAGCCTAAGGACCATTCTAGATTTATTACGTGTTTTTTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTATCCATAAAATGCATATGTAAATTTTTTTTTGTGTTTAAAGCATTCACCCAAACAAAA
AAATCACAGGTAAACCCATGTTTCTGAGATGCCATTATTCCAAGCAAAATAAGAGATAATCCCTTCAAGTTAAAT
TGAAATTTTCTGAAACCATAACATTTCAAGTGAAATAAGTAATTCTAGATAGGACAATTTAAATTGGATAATTT
TAAAGTGTCTATAATTGCAGTGGTTTATTTGCAAAATTCCTAAAAGGAAAAATTTTATCACTGCCATCACAGCAG
GTTTCTCATCCAGATGAGGAAACTAGACAAATGCTAGTGTGTTTAACTAGCTAAACAAAACCTAAGTTAAATGA
ACATTTAAAAGTTTCCCTAGCGGGCCATTCTTAGCAAAATGTTGGAATCCCTGTTGCTACATTGACTAAAAGGT
CATGATGAATGGAATATGTAAGACTTGGCTCATAGAAACCTAATCAGATGGTTAGAGGTGTTGGCAGTTTAGGAC
CTGCTGTCATAAATGTGTGAACAACCTTTTGTAACCTAACCTATTGACCTGCATGTTTTTTCTTTACCCCAATTC
ATTACATGGAGGCTCAATCTTGAGTTTGCTTTACTGGTTCAGCAAAAGCCAGGAAGAACAACCTTTGTAGTAATCA
AAATGTTATCCAACGTGTATATTGTTTACTTTATTGTAAATACTGGTGAACAGTGGTTAATAAATAGTTTTATATT
CCTTTATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2215

MASNKTTLQKMGGKQNGKSKKVVEEAEPPEFVVEKVLDRRVNGKVEYFLKWKGF
TDADNTWEPEENLDCPELIEA
FLNSQKAGKEKDGTGRKSLSDSESDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL
VLAKEANMKCPQIVIAFYERLTWHSCPEDEAQ

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FIGURE 2216

TCCCCCGGCGGCCCCGCGCGCAGCTCCCGGCTCCCTCCCCCTTCGGATGTGGCTTGAGCTGTAGGCGCGGAGGG
CCGGAGACGCTGCAGACCCGCGACCCGGAGCAGCTCGGAGGCGGTGAATAATAGCTCTTCAAGTCTGCAATAAAA
AATGGCCTCCAACAAACTACATTGCAAAAAATGGGAAAAAACAGAATGGAAAGAGTAAAAAGTTGAAGAGGC
AGAGCCTGAAGAATTTGTCGTGGAAAAAGTACTAGATCGACGTGTAGTGAATGGGAAAGTGAATATTTCTGAA
GTGGAAGGGATTTACAGATGCTGACAATACTTGGGAACCTGAAGAAAATTTAGATTGTCCAGAATTGATTGAAGC
GTTTCTTAAGTCTCAGAAAGCTGGCAAAGAAAAAGATGGTACAAAAAGAAAATCTTTATCTGACAGTGAATCTGA
TGACAGCAAATCAAAGAAGAAAAGAGATGCTGCTGACAAACCAAGAGGATTTGCCAGAGGTCTTGATCCTGAAAG
AATAATTGGTGCCACAGACAGCAGTGGAGAATTGATGTTTCTCATGAAATGGAAAGATTGAGATGAGGCAGACTT
GGTGTGGCGAAAGAGGCAAATATGAAGTGTCTCAAATTGTAATTGCTTTTTATGAAGAGAGACTAAGTGGCA
TTCTTGTCCAGAAGATGAAGCTCAATTAATTGTTTACATTGTTCTTTTATATATATTTATATATATATATAAAAT
TGGGTCTTAGATTTTGATTTACTAGTGTGACAAAATAACTACATCCTAATGAAAATCAAGTTTGATATGTTTGT
TTGAAAGTAGCGTTGGAAGAGTTGTTGGGGGTTTTTGCATCCATAGCACTGGTTACTTTGAACAAATAAATAAA
AGCTTTCTGTAGTTGCTTCCTTTATCAGAAAAGAACATTTGATACCATGGTATATCATTTCTCTTCATTAAAGA
ACAGCTTTTCTAAATGTTGGGGGAAATGTCCATAGTCATTACTCAGTCAAACTTGTGTTCTCATGAGCCTAAGG
ACCATTCTAGATTTATTACGTGTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCCATAAAATGCATAT
GTAAATTTTTTTTTGTTTTTAAGCATTCACCCAAACAAAAAATCACAGGTAAACCCATGTTTCTGAGATGCCAT
TATTCCAAGCAAATAAGAGATAATCCCTTCAAGTTAAATTGAAAATTTTCTGAAACCATACATTTCAAGTGAA
ATAAGTAATTCTAGATAGGACAATTTAAATTGGATAATTTTAAAGTGTCTATAATTGCAGTGGTTTTATTTGCAA
ATTCTTAAAGGAAAAATTTTATCACTGCCATCACAGCAGGTTTCTCATCCAGATGAGGAACTAGACAAATGC
TAGTGTGTTTTAACTAGCTAAACAAACTAAGTTAAATGAACATTTAAAAGTTTCCCTAGCGGGCCATTCTTAG
CAAAATGTTGGAATCCCTGTTGCTACATTGACTAAAGGTCATGATGAATGGAATATGTAAGACTTGGCTCATAG
AAACCTAATCAGATGGTTAGAGGTGTTGGCAGTTTAGGACCTGCTGTCATAAATGTGTGAACAACCTTTTGTAAC
CTAACCTATTGACCTGCATGTTTTTTCTTTACCCCAATTCATTACATGGAGGCTCAATCTTGAGTTTGCTTTACT
GGTTCAGCAAAAAGCCAGGAAGAACAACCTTTGTAGTAATCAAATGTTATCCAAGTGTATATTGTTTACTTTATTG
TAAATACTGGTGAACAGTGGTTAATAAATAGTTTTATATTCTTTATGCAA

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FIGURE 2217

MASNKTTLQKMGKKQNGKSKKVEEAEPEEFVVEKVLDRRVVNGKVEYFLKWKGF
TDADNTWEPEENLDCPELIEA
FLNSQKAGKEKDGTKRKSLSDSEDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADL
VLAKEANMKCPQIVIAFYERLTWHSCPEDEAQ

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FIGURE 2218

GACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGGGTCCCGCG
GCAGTGCTGGTGCCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAATTTAAAGGATTCTGCTATGTAGAATTTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG
GTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCTCGGTGGAT
CCAACATGGATTTTCAGAGAACCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTTG
TTCAAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG
TGAGTCCCCGGGCAGCCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCT
TGTGAGTGCGATGTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTGCGTTTTTTTCTTCTTCCGCTGCTTCCCCATTTTCCCTTCTGTCTTTTTCTCCTGCTCCTTGTTTTCCAG
CAGCACACGGGGTTCTCGGAGGAGCAGAGGTGGCCGCCGTTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTT
TTCTTTTGCTTTCTCTTTACTTTAGACACTGGCCCAACTCCAGGAGTTTCTTTTCATTCCCTCAGTGCTTCTCTT
CTGACCTGCATGTTGAGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAAGTGCAGA
GACCTTGTTGGTATTTCAGCTGTGATGGATATAGAGAATCGGAGGCACCTTGTTTTACAACCTAGGATAAAAAATAT
CTGCAGGGTCCCTTTCATTCCCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGGCCATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT
GCAGTGAATGCTTGCGATGCATTACACGCTGTGTGTGTGCCAGCTAGTTCACTCCTTTCGCCGTGCGTGGTGGAGG
CTCGCCTCTCTGGCCGGGTGCAGTGAACGGCCAGCGGGTTTCTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA
GGGGGTGGTGCTGGCGCTGCACTGGGCTGACTGCGGCGCTGACACAGCGTTTCCCCCATCCCTGTTGCTGTGT
GTTGTGTGGATCTGTTCCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCTTCAGTTCAGAGCC
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTTCTTTGATAAATTGTACTGTGCAGAGCTGTGAGGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGCCTAGGTCTGCGGCCACATCTTGGGGACACACTGGATTGTTCCCATGTGC
AGGGTTCAGCACTTACGTGGGAGTGCTAGGGGTTAGGCTTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAAA
ATCCTTCAGTACCCAAGTCCCAGTCTGTCTATGGGGAGCAGTTTGGGGGCGGCCGGCAGCAGGAGCCTGGGAAA
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACC
AGCCGTCATCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCTCTCTCT
TCCACCTGTCAGCTTCTCTGCTTCTGAGATAAGAACCATTTGTGTAACACCAACACTTAACCTCAGAAAGACATG
CATTATGTGGTGTAATCAAACCCGAGGCTTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA
AAACACATGCATCTAAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATCCAAACACTTAACAC
ATTCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAGAAAACCTT
ACGTAATATTT

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FIGURE 2219

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATA
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT
ACGGCTAGTCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA
ACAAGATAAAGGTGGCTTTGGATTACAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGGCCCTCCCTCGG
TGGATCCAACATGGATTTACAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACCTCG
AACAGTCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGA
AGTTGTTCAAAAGGAGCAAAAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAG
CCTGGTGAGTCCCCGGGCAGCCGTCCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACA
CAGCTTGTGAGTGCATGTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGC
CTGTTTGTGCGTTTTTTTTCTTTCTTCCGCTGCTTCCCCATTTTCCTTCCACCTGTCAGCTTCTCT

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FIGURE 2220

GGAGCGGAGACGGCAAATGGCGGACTTCGACACCTACGACGATCAGGCCTACAGCAGCTTCGGCAGCGGCAGAGG
GTCCCGCGGCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATA
CGTAGGAAATCTACCTTTCAATACGGTTCGGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGT
ACGGCTAGTCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCT
TAAGGAAGCCTTGACATACGATGGTGCCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAA
ACAAGATAAAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGG
CAGGGGAGGTAGTCGCCCAGGCGACCGGCGAACAGGCCCCCCCCATGGGCAGCCGCTTCGGAGATGGCCCTCCCCT
CGGTGGATCCAACATGGATTTTCAGAGAACCCACAGAAGAGGAAAGCGCACAGAGACCACGACTCCAGCTTAAACC
TCGAACAGTCGCGACGCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGA
GGAAGTTGTTCAAAAGGAGCAAAAATTCAGGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCTTGTGAGTGCAT
GTCAGCTGTTAACAAGTGGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTT
TTCTTTCTTCGCTGCTTCCCCATTTTCCTTC

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FIGURE 2221

MADFDTYDDQAYSSFSGSGRSGRSAGGHGSRSQKELPTEPPYTAYVGNLFPNTVVRGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGFRDDFLGGRGGS
PGDRRTGPPMGSRFGDGPFLLGGSNMDFREPTTEESAQRRLQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK
EQK

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FIGURE 2222

CGCGTCAGGCCGCTCCTCTCGGCTCCGCGCTCCTTCCCTCGCGCGTGGGCACCCGCCCCCGAGCGGTGAGAGCGC
GTGCGCGCGCGCCCTTCTCCGTGGGCGAGCCAGCCAGTCCCGCTGCACACGCTCGCAGTCTGTGGGCCCTCCGGG
AGGCGGGCGGAGGTACCGCGGGGAGAGGGGCGGGCGCAGCATGGCAGCCTCCTTACGGCTCCTCGGAGCTGCCTC
CGGTCTCCGGTACTGGAGCCGGCGGCTGCGGCCGGCAGCCGGCAGCTTTGCAGCGGTGTGTTCTAGGTCACTGGC
TTCAAAGACTCCAGTTGGATTCAATTGGACTGGGCAACATGGGGAATCCAATGGCAAAAAATCTCATGAAACATGG
CTATCCACTTATTATTTATGATGTGTTCCCTGATGCCTGCAAAGAGTTTCAAGATGCAGGTGAACAGGTAGTATC
TTCCCCAGCAGATGTTGCTGAAAAAGCTGACAGAATTATTACAATGCTGCCCACCAGTATCAATGCAATAGAAGC
TTATTCCGGAGCAAATGGGATTCTAAAAAAGTGAAGAAGGGCTCATTATTAATAGATTCCAGCACTATTGATCC
TGCAGTTTCAAAGAATTGGCCAAAGAAGTTGAGAAAATGGGAGCAGTTTTTCATGGATGCCCTGTTTCTGGTGG
TGTAGGAGCTGCACGATCTGGGAACCTCACGTTTATGGTGGGAGGAGTTGAAGATGAATTTGCTGCTGCCAAGA
GTTGCTGGGGTGCATGGGCTCCAACGTGGTGTACTGTGGAGCTGTTGGGACTGGGCAGGCGGCAAAGATCTGCAA
CAACATGCTGTTAGCTATTAGTATGATTGGAACCTGCTGAAGCTATGAATCTTGGAATCAGGTAGGGCTTGACCC
AAAACCTACTGGCTAAAATCCTAAATATGAGCTCAGGACGGTGTGGTCAAGTGACACTTATAATCCTGTACCTGG
AGTGATGGATGGCGTTCCCTCGGCTAATAACTATCAGGGTGGATTTGGAACAACACTCATGGCTAAGGATCTGGG
ATTGGCACAAGACTCTGCTACCAGCACAAAGAGCCCAATCCTTCTTGCCAGTCTGGCCCATCAGATCTACAGGAT
GATGTGTGCAAAGGGCTACTCAAAGAAAGACTTCTCATCCGTGTTCCAGTTCTTACGAGAGGAGGAGACCTTCTG
AGTGTGCCCTTTGGCCACGGACACTGTTGGGAACCAAACCTCTGTCTTGAGCCTCCTTTTAGCTCACTCCACAAG
TAAATGGATTTAATCAAAGGTACCTATCTGCTTTTGATTGTCTAGGTCACAGTAATCCCTAGGATTTTTTCACCG
CTTATTCTTTTTGTCTTTTTTAACAAACATATTATCCGAATTTTTTTTCTGCAAGCCACTGATAGTCTCTGCTAAC
TAGCTTAATTGACCTTTTTTACAAAGTTTGATCCCCAAGCATCTCAACTAAATCATTGAATACTTCAATCAGGAT
ATTATCTGCTTTACTTTACAAATAAAACCAAATCTTTTGTCACAGGATGAAACCCATCTTAAAGGAAAGAAAAG
GAATTGGTGTGAAGAGAGAAGTTAGAGAAGGGAAATGCAGTGAATTACTATCTGTGTCCATCAGGAAGTTTGTCC
TGTTAACCAAATGGTTACTGCACTACCAGGGTTACTGGTTTATTTTCCAGGGAGCTGATAAAGCAGGAGAACTGT
TGCTGCATGTTTTCTATTTGGACTCCGTACAAATATGGTAGGATATCCCTCACCAACTCCCGACACTCAGCAGAC
TTGTTTTTATATTTTTTCTTTCTTGTTTATTCTTACTACGTATTTTTTGACTTAAGAATGACATCTTTAGATGC
ATTTTCAGAGCCAATGATGATATTTGCTTTAGATAATTATTATATTATTATAAATATAGCCATATTATTTTGAATT
CAAATAAATTTCTATACTGGT

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FIGURE 2223

MAASLRLLGAASGLRYWSRRLRPAAGSF AAVCSRSVASKTPVGFIGLGNMGNPMAKNLMKHGYPLIIYDVFPDAC
KEFQDAGEQVVSSPADVAEKADRIITMLPTSINAIEAYSGANGILKKVKKGSLIDSSTIDPAVSKELAKEVEKM
GAVFMDAPVSGGVGAARSGNLTFMVGGVEDEF AAAQELLGCMGSNVVYCGAVGTGQAAKICNNMLLAISMIGTAE
AMNLGIRLG LDPKLLAKILNMSSGRCWSSDTYNPVPGVMDGVP SANNYQGGFGTTLMAKDLGLAQDSATSTKSP I
LLGSLAHQIYRMMCAKGYSKKDFSSVFQFLREEETF

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FIGURE 2224

GACGCAAGGCCTACTGTCTGGCTGGGAGGGGAGGTGTAGCCGGTCTTTGGGGGTAGGCGGTAGTGGCGGAAGAGGT
TCGGCGGCTGATGGCGGATCAGGATCGGAAGCCTGCGTAACTTTCTCCCTTGATCCGGGAGTCTTTCCACTGGAT
TCACAATGACATCCTTTCAAGAAGTCCCATTGCAGACTTCCAACCTTTGCCCATGTCATCTTTCAAAATGTGGCCA
AGAGTTACCTTCCTAATGCACACCTGGAATGTCATTACACCTTAACTCCATATATTCATCCACATCCAAAAGATT
GGGTTGGTATATTCAAGGTTGGATGGAGTACTGCTCGTGATTATTACACGTTTTTATGGTCCCTATGCCTGAAC
ATTATGTGGAAGGATCAACAGTCAATTGTGTACTAGCATTCCAAGGATATTACCTTCCAAATGATGATGGAGAAT
TTTATCAGTTCTGTTACGTTACCCATAAGGGTGAAATTCGTGGAGCAAGTACACCTTTCCAGTTTCGAGCTTCTT
CTCCAGTTGAAGAGCTGCTTACTATGGAAGATGAAGGAAATTCGTACATGTTAGTGGTGACCACAAAAGCAGGCC
TTCTTGAGTTGAAAATTGAGAAAACCATGAAAGAAAAAGAAAGTGTAAAGTTAATTGCCGTTCTGGA AAAAG
AAACAGCACAACTTCGAGAACAAAGTTGGGAGAAATGGAAGAGAACTTAACCATGAGAAAGAAAGATGTGACCAAC
TGCAAGCAGAACAAAAGGGTCTTACTGAAAGTAACACAAAGCTTAAAAATGGAAGTGAAGAGTTAAGAAGAGGT
TCAGTGATGCTACATCCAAAGCCCATCAGCTTGAGGAAGATATTGTGTGAGTAACACATAAAGCAATTGAAAAAG
AAACCGAATTAGACAGTTTAAAGGACAACTCAAGAAGGCACAACATGAAAGAGAACAACCTGAATGTCAGTTGA
AGACAGAGAAGGATGAAAAGGAACTTTATAAGGTACATTTGAAGAATACAGAAATAGAAAATACCAAGCTTATGT
CAGAGGTCCAGACTTTAAAAAATTTAGATGGGAACAAAGAAAGCGTGATTACTCATTTCAAAGAAGAGATTGGCA
GGCTGCAGTTATGTTTGGCTGAAAAGGAAAATCTGCAAGAACTTTCTCTGCTTACAACCTCAAGTAAAGAAGATA
CTTGTTTTTTTAAAGGAGCAACTTCGTAAAGCAGAGGAACAGGTTTCAGGCAACTCGGCAAGAAGTTGTCTTTCTGG
CTAAAGAACTCAGTGATGCTGTCAACGTACGAGACAGAACGATGGCAGACCTGCATACTGCACGCTTGAAAAACG
AGAAAGTGAAAAAGCAGTTAGCTGATGCAGTGGCAGAACTTAACTAAATGCTATGAAAAAGATCAGGACAAGA
CTGATACACTGGAACACGAACCTAAGAAGAGAAGTTGAAGATCTGAACTCCGTCTTCAGATGGCTGCAGACCATT
ATAAAGAAAAATTTAAGGAATGCCAAAGGCTCCAAAAACAAATAAACAACTTTTCAGATCAATCAGCTAATAATA
ATAATGTCTTCACAAAGAAAACGGGGAATCAGCAGAAAGTGAATGATGCTTCAGTAAACACAGACCCAGCCACTT
CTGCCTCTACTGTAGATGTAAAGCCATCACCTTCTGCAGCAGAGGCAGATTTTGACATAGTAACAAAGGGGCAAG
TCTGTGAAATGACCAAGAAATTGCTGACAAAACAGAAAAGTATAATAATGTAAACAACCTTTGCAGGATGAGA
AAGCAAAATGCAATAAATATGCTGATGAACCTGCAAAAATGGAGCTGAAATGGAAAGAACAAGTGAAAATTGCTG
AAAATGTAAACTTGAAGTACAGTGAAGTACAGGACAATTATAAAGAACTTAAAGGAGTCTAGAAAATCCAGCAG
AAAGGAAAATGGAAGGTCAGAATTCCCAGAGTCTCAATGTTTCAAAACATGCTCAGAGCAAAATGGTTATGTTT
TCACATTGTCAAATGCACAACCAAGTTCTGCAATATGGTAATCCTTATGCATCTCAGGAAACAAGAGATGGAGCAG
ATGGTGCTTTTTTACCCAGATGAAATACAAAGGCCACCTGTCAGAGTCCCCCTCTTGGGGACTGGAAGACAATGTTG
TCTGCAGCCAGCCTGCTCGAACTTTAGTCGGCCTGATGGCTTAGAGGACTCTGAGGATAGCAAAGAAGATGAGA
ATGTGCCTACTGCTCCTGATCCTCCAAGTCAACATTTACGTGGGCATGGGACAGGCTTTTGCTTTGATTCCAGCT
TTGATGTTCAACAAGAGTGTCCTCTGTGAGTTAATGTTTCTCCTAACTATGATCAGAGCAAATTTGAAGAAC
ATGTTGAAAGTCACTGGAAGGTGTGCCGATGTGCAGCGAGCAGTTCCCTCCTGACTATGACCAGCAGGTGTTG
AAAGGCATGTGCAGACCCATTTTGATCAGAATGTTCTAAATTTTGACTAGTTACTTTTTATTATGAGTTAATATA
GTTTAGCAGTAAAAAAAAAAAAAAAAAACACACCTAAATAGACCACTGAGGAGACCATAGAGCGGATGCTTTCA
TGCACCCCTTTACTGCACTTTCTGACCAGGAGCTACTTTGAGTTTGGTGTTACTAGGATCAGGGTCAGTCTTTGGC
TTATCAATAAAATTTAATCTCTGTTAATCTTACCTGCTTTAAAAAAAAGTTCTTGTTGTTTCGTATCTTTATTTA
TTCCCTAGTTTGCAAGCTGTCTGAATAAAGGATACAAGGATTATTTCAATGTTACTGCACTGAAAAACGTGTAT
GTATTAGTGTGCTAGATTATTTAGCAGAATATTCACAAGTTTCTGTTGACCTTGTTGATTGAGCATGACTACTAA
ATATTATGTAATAAAAAAGCATTGTGCATAAC

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FIGURE 2225

ATGGAGAAGCAGAGAGGGAAGTGCAGAGACAGGTCACCCAGGCGCCTGGAAACTGCCTCTATGGCCTTCACGGGA
AACGGCCTCTTTCTACTCCGGATCCCAGACTGTGTTTCTTTGAAACTGACCGTCAGAGGAGAGCGGCTGGAGGCG
GACAGACGTCTGCAGTGGGAGGCGCTCCAGGCGTTCCAGGCAGTGTCTGCGGGCGAGTCACCCGCGACCGCGAG
TCACCTCACCAAGCCCTGAATTGGGACAGGAGACGAGACGTGTCGACGAGCTGCGGAGTTCCTCGCTTCTCTGGG
CCCTGCCAGCTCACAGCCAAGGTGCACCAGAGCCTCCGTACCGCCCCCTACAGAGCACGTACTTTTATCACACGA
ACTATGACTCAGACACCACAAACCCAGACCAGGCCTCCAGGTCAGAAGTTGACTCCCCTGAGGCCTGTGGTAGGA
GAATGTGGTCTGGAAAATGAGGTGTCACTGGTGATCAGACATCATCACTTTTCTAGTGACTGTCAGCTTAGTTTT
GTCCTACAGTTGTCTTGA

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FIGURE 2226A

CCCCGACTAGCCCCGACAGTCCCCGACTAGCCCCGACAGCCCCAGCAGGATCTGCATCGTTCATCGAGCCGGCCCCAGC
TTCTGAAGGGAGATGTCAATGGTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCAATTTCCGCC
TGCAGTTTACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTGCATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGTCTGTCTCAGCAGTGAATCCGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTACAGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCTCGGAAGGGCCTCAGTCGGCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAACTCACTCCTATCTGACGGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCTTGGCATGGACGGCCCCATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCCCTGCTGAGAAAGCCCTCAGTGTCCGCCCAGATGCAGGCCTATGGGCAGAGCAGCTACT
CCACACAGACCTGGGTGCGCCAGCAGCAGATGGTTGTAGCTCACCAGTATAGCTTCGCCCCAGATGGGGAGGCCC
GGCTGGTGAGCCGCTGCCCTGCAGACAATCTGGCCTCGTCCAGGCCCAGCCAGAGTGCCACTCACCCCCACCC
GAGGGACCAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCAGCAAAGCGTTCAAACCCAGTTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGCCAGAGCTGAGCACAG
GCCCCCTCCCCAGGCTCGCCACCCTGGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGGCAGCTGCCCTTCTCAAATGTGCATGGGGAAGGCTGGTGTGGACTATGCCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAATTT
TAAGTAGCAAGGAGTCCATGTGTCAACTCCAGCATTTCCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC
TGCGCCATCCTCCGTTACAGCCACCTGAGCCCCGCTGAGCAGCCAGCCAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGGATGTGAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCTCGACGCCCTCCTTTCAGCAGGCTTTTGCTTCTTCTGCAACATTTCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGAGAACGCCAGTGGGTGGAGAGCAGCCCCAAGCCCATGGTTTCCC
TGCTGGGGAGCGGCCCGGCCACCGGAAGTCCCTCAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGC
TGTCTGCTTCCCGCCGTCAGAGCTCCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCCGAGG
AGGACCTGGGGGCCTTGCTGGCCAATTCTCATGGAGCGTCACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCTGTCCCACAACTTTCTACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGGTGTGACCCTGCCCCGGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTT
CTTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCGCACAGCGGGAGCACCATCAGTATCCCTTCC
CAAATGTCCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCTGCCAGATAGTCCAGGTGATAAATTG
TGATCGTGAAATTTGTTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTCATTGTTTCGAGACAGCCATTCTTCCGAGGGGCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCAGTCTGCGAGCTGAACAAGAAAGCTGGAGATTTGGCCAATGAACTCGTCC
GGCATTTTTTGATCGAGTGTACCCCGAAGGGAGTGGGTTGAAAGGGTGTCTCGAATGAACCATATTTCCGGAGCC
TGACGGCCTTGGTGTGCCAGCATTCCATCACGCCCTTGGCCTTGGCGTGCAAGCTGCTTATCCAGAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGGTACTTGAACCTCTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCAGAAGGCCCTGA
GCATCACCTGGTCCAGGAGCCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTGAGCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACC
CACAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTTGTGGCCCGGAAGCAGGGCAGTG

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FIGURE 2226B

[illegible]

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FIGURE 2227

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNTTDPLIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVPAQVHVN
GDAALKDRETDILDDEMPHHDLHSVDSLGLTSSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTLPD
LGLGMDGPYERERTFGSREPKQPQLLRKPSVSAQMQAYGQSSYSTQTWVRQQQMVAHQYSFAPDGEARLVSR
PADNPGVLVQAQPRVPLTPTRGTSSRVAVQRGVSGSPHPPDTQQPSPSKAFKPRFPGDQVVNGAGPELSTGPPSGS
PTLDIDQSIEQLNRLILELDTFEP IPTHMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRKL SLGQYDNDAGGQLPFSKCAWGKAGVDYAPNLPPFPSPADVKETMTPGYPQDLD IIDGRILSSKES
MCSTPAFPVSPETPYVK TALRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESP IGPKSTMLRADAS
STPSFQQAFASSCTISSNPGQRRESSSSAERQWVLESSPKPMVSLLGSRPTGSPLSAEFSGTRKDSVLSCFPP
SELQAPFHSHEL SLAEPDSLAPPSSQAFLGFGTAPVGSGLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLT VAPGHSSSHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGSVSPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFWYKADISREQAIAMLDKKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCSNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLSNVEMESLTGHQAIQKALSITLVQEPPPVS TVVHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWKIDGPPSSKVFGFVARKQGSATDNVCHLFAEHDPEQPASAI VNFVSKVMIG
SPKKV

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FIGURE 2228

GGCACGAGGCACAGCTTCGCGCCGTGTACTGTCGCCCCATCCCTGCGCGCCCAGCCTGCCAAGCAGCGTGCCCCG
GTTGCAGGCGTCAATGCAGCGGGCGCGACCCACGCTCTGGGCGGCTGCGCTGACTCTGCTGGTGCTGCTCCGCGGG
CCGCCCCGTGGCGCGGGCTGGCGGAGCTCGGGGGGCTTGGGTCCCGTGGTGCGCTGCGAGCCGTGCGACGCGCGT
GCACTGGCCCACTGCGCGCCTCCGCCCCGCGTGTGCGCGGAGCTGGTGCGCGAGCCGGGCTGCGGCTGCTGCCTG
ACGTGCGCACTGAGCGAGGGCCAGCCGTGCGGCATCTACACCGAGCGCTGTGGCTCCGGCCTTCGCTGCCAGCCG
TCGCCCCAGGAGGCGCGACCGCTGCAGGCGCTGCTGGACGGCCGCGGGCTCTGCGTCAACGCTAGTGCCGTGAGC
CGCCTGCGCGCCTACCTGCTGCCAGCGCCGCGAGCTCCAGGAAATGCTAGTGAGTCCGAGGAAGACCGCAGCGCC
GGCAGTGTGGAGAGCCCGTCCGTCTCCAGCACGCACCGGGTGTCTGATCCCAAGTTCCACCCCTCCATTCAAAG
ATAATCATCATCAAGAAAGGGCATGCTAAAGACAGCCAGCGCTACAAAGTTGACTACGAGTCTCAGAGCACAGAT
ACCCAGAACTTCTCCTCCGAGTCCAAGCGGGAGACAGAATATGGTCCCTGCCGTAGAGAAATGGAAGACACACTG
AATCACCTGAAGTTCTCAATGTGCTGAGTCCCAGGGGTGTACACATTCCCAACTGTGACAAGAAGGGATTTTAT
AAGAAAAAGCAGTGTGCGCCCTTCCAAAGGCAGGAAGCGGGGCTTCTGCTGGTGTGTGGATAAGTATGGGCAGCCT
CTCCCAGGCTACACCACCAAGGGGAAGGAGGACGTGCACTGCTACAGCATGCAGAGCAAGTAGACGCCTGCCGCA
AGGTAAATGTGGAGCTCAAATATGCCTTATTTTGCACAAAAGACTGCCAAGGACATGACCAGCAGCTGGCTACAG
CCTCGATTTATATTTCTGTTTGTGGTGAAGTATTTTTTTTTTAAACCAAAGTTTAGAAAGAGGTTTTTGAAATGCC
TATGGTTTTCTTTGAATGGTAAACTTGAGCATCTTTTCACTTTCCAGTAGTCAGCAAAGAGCAGTTTGAATTTTCT
TGTCGCTTCTTATCAAAATATTAGAGACTCGAGCACAGCACCCAGACTTCATGCGCCCGTGGAATGCTCACCAC
ATGTTGGTGAAGCGGCCGACCACTGACTTTGTGACTTAGGCGGCTGTGTTGCCTATGTAGAGAACACGCTTCAC
CCCCACTCCCCGTACAGTGCACAGGCTTTATCGAGAATAGGAAAACCTTTAAACCCCGGTATCCGGACATCC
CAACGCATGCTCCTGGAGCTCACAGCCTTCTGTGGTGTCAATTTCTGAAACAAGGGCGTGATCCCTCAACCAAGA
AGAATGTTTATGTCTTCAAGTGACCTGTACTGCTTGGGGACTATTGGAGAAAATAAGGTGGAGTCTACTTGTTT
AAAAAATATGTATCTAAGAATGTTCTAGGGCACTCTGGGAACCTATAAAGGCAGGTATTTGCGGGCCCTCCTCTC
AGGAATCTTCTGAAGACATGGCCCAGTGAAGGCCAGGATGGCTTTTGCTGCGGCCCCGTGGGGTAGGAGGGA
CAGAGAGACAGGGAGAGTCAGCCTCCACATTCAGAGGCATCACAAGTAATGTCACAATTCTTCGGATGACTGCAG
AAAATAGTGTTTTGTAGTTCAACAACTCAAGACGAAGCTTATTTCTGAGGATAAGCTCTTTAAAGGCAAAGCTTT
ATTTTCATCTCTCATCTTTTGTCTCCTTAGCACAAATGTAAAAAAGAAATAGTAATATCAGAACAGGAAGGAGGAA
TGGCTTGCTGGGGAGCCCATCCAGGACACTGGGAGCACATAGAGATTCACCCATGTTTGTTGAACCTTAGAGTCAT
TCTCATGCTTTTCTTTATAATTACACATATATGCAGAGAAAGATATGTTCTTGTTAACATTGTATACAACATAGC
CCCAAATATAGTAAGATCTATACTAGATAATCCTAGATGAAATGTTAGAGATGCTATTTGATACAACCTGTGGCCA
TGACTGAGGAAAGGAGCTCACGCCCAGAGACTGGGCTGCTCTCCCGGAGGCCAAACCCAAGAAGGTCTGGCAAAG
TCAGGCTCAGGGAGACTCTGCCCTGCTGCAGACCTCGGTGTGGACACACGCTGCATAGAGCTCTCCTTGAAAACA
GAGGGGTCTCAAGACATTCTGCCTACCTATTAGCTTTTCTTTATTTTTTTAACTTTTTGGGGGGAAAGTATTTT
TGAGAAGTTTGTCTTGCAATGTATTTATAAATAGTAAATAAAGTTTTTACCATTAAAAAATAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2229

MQRARPTLWAAALTLLVLLRGPPVARAGASSGGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCAL
SEGQPCGIYTERCGSGLRCQSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVE
SPSVSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTONFSSESKRETEYGPCRREMEDTLNHLK
FLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

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FIGURE 2230A

GCGGGTGTTCGCCTACGTCACTGGGGCGCTACAGTACCTGGAGCTGGGCAGTCTTCTCATCAGAGTGGGGACTAA
TAACAGTGACCTCCCCGCCAGGTCTGTGTGTTGCCGGCTGAAGAAGGATGATGATTATTTCCACCTTCTGAGA
GACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAGAACCCGCCAATGCTGGGGAACGGAAAATGAGGGAGTT
CAACTCTGGCCCTCACAATCCAGTGGAGGAGACGAAACTCATCTGCCTCTGTCCCTCTGGGCACGCTTCATGCCA
GGTGCATCTGTGGACAGGGGCCATGCTCCTGGGCTTCCAAAGTTGGAGAAAGCTGCCAGGCTCAGAGCCACCTAA
GCTGAAGATTCCCTTGAGAACAAAGTACTGTCTGTGGTTTTCATGGCCTTTCTTCCATTGTGGTTCTTGTGAAGT
GGAATTTAAATGACATCTTATCAAGATGGATAAACCTAGTTTTCCAGTGTGGAATATAGAAAATGGATGGACA
AGTAAATCCCACCTCATCACCCATAGTCCAGGCATGGGGACCTCAACACACCTGAGCCCCAGACATCACCTTTTCAT
TCTGGACCTACCATGAAAAGACTTCTGAATCCAGGAAGAGAGACTGACTGGGCAACATGTTGTTTCAGAAAACAGGAC
CTTGCCCTGTCAATTTAGGATGGAGTTCAGTGGTCCAATCATGGCTCATTGTAGCCTCAAACCTCCAGGCTCAAGC
AATCCTACCATGTCAAGCTTCCCAGTAGCTGGGACTACAGCTGGATCTACCATGAAAGACTTCTGAATCCAGGAA
GAGAGACTGACTGGGCAACATGTTATTTCAGGGTCTCCCTCTCTTGTCCAAGGCTGGAGTGTAGTAGTGCTATCAC
AGCTGACTGCAGCCTCAACCTTCCAGGCTGAAGCGATCTCCCATCTCAACCTCCCACGTGGCTGAGACTATAGG
TGCTTGCCACTATGCCCAACTAATATTTGGAATTTTCTATACGTGGATTCCAGAGGGGTGACAGCGAAACGTGA
GACCATCCAGTTGCAGAAAAACAAGCTTAACACGCCCACTGATTCTACATTATGCCCTACCTCCCGGCAGCCTC
TCCAGGCCCCAGAATTTCTCCAGTCAGCCTCCACAGACCAAGCTCATGACTACAATGGCCTATTTAGGCCATA
CCCTACCTCACGGCAGTCTCTGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCACCGTTAC
AATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAGCTTTCTCAAGTCGACCTCACC
AGGCCCAGCTCATGCTTCTTGGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGCAGCCTCTCCAGGCCAGCCT
CTGCCTCCTGTCAAGCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCAGTATCTGCCTCACTG
TGGACCACCCAAGCCAAGCTCCCAACCTTTTTCAGCAGCTTCTACACACCCAGCTCCTGCCACCCAGTGGCCTCTTT
AGGCCAAGCTCATGCTCACAAGGGCCTTTTCCAGGCCCAACTTTTTGTCTCATGGCAACCTTCCCTGGCCACATTC
CTGCCTGTCTCCAGCAGCCTAGACAGGCCAGGTCTTGCCTCACACTGGCCTGTCTACATCCAGCTCTTGCCTC
ACGGTGGCCTCTCCAGGCCAGCTCCTGTCCAGGACGTATCTCCAGGCCCAAACTTCTCAAGTCAGCCTCT
CTAGTCCCAACTGTGCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTCTCCAGGCCAGCT
CCTGCCTCCTGTCAAGCTCTACAGGCCCAACCTCTGCCTCATGGGGGCTTCTCCAGGCCAGCTCTTCTCTGGG
CTGAGTCTACAGGCACAACCTGCTGCCTCACAACAGCCTTTTTTGGCCAGTTCTGTCCAGCTCACAGCGACCA
TGTAGGCCCAAACTTCTCAAGTCAAACCTCTCCAGGCCTGCCTTCTTCTGTGGCATGAACAGGCCAGCTTT
GACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCAGGGGCTTCTCCAGGCCAGCTCTTGCCTCATGGC
GGCTGCCCCAGGCCAAGTTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAGCTCTTCCCTCACAGTGGCCAT
TTAGGCCCAACTCATGACTGTGCGGCCATTTCCAGGCCTAGTGCTGCTCCTGGCTGACTCTTGAAGCCAAAA
CTTCTCAAAATCAGCCTTTTGGCCAACTTCTGTCTACTGTGCGACTCTACAGGCCAGCCTCTGCCTCACAGTGA
CCCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCAGCAGCCTCTACGGGCC
CAGCTCCTGCCTTGCAATGGCCTCTTTAGGCCAAGCTCATGCCCCACGGCGACTTTTCCAGGCACAGCTTTTGCC
TTTTGCAGCCTGTCCAGGCCAGAATGTCCTTAACTCGGCGTCTCCAGGACGAGCTCATCTCCAGTGCGTCTA
CAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGTCCAACCTCCTGCTGAGCTGCTTGGCAGCCTCTGTAGGCC
ACAGAGTTCTTAAAGTAAAGCTTTCCAGGCCACCTTCGGCCTCCCGGCAGCCTCAGCAATCAAATATTCCCTC
ACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACAGCATCCTCCGAAAATGAGCATTGTGCTCACGGTGG
CCTCCCCAGGCCACGAATCTGCCTGCCTCCAGGCAGCTGCTGCCTCACAATGGTCTCTTTAGGCCAGCTCTTG
CTAAAAGACAGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGGCTCTGCAGGCCCAATTTCTCCAAAAGTTGGC
CTCTCCTAACTCAGCTCCTGCCTCATGTGCGCCTACACAGGCCAGACTCTTACCACACAGTAGACCTCCAGGC
CCACCACTTGCTGAGCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTTCGGCAGCCTCTACAGGCCAGCTCCTGC
CTCGCAATTGCCTTTGTAGGCCAAGATCATGCCGCGAAGTGGCCTTTCTAGCCTAACTTTTGCTTTTTGACGCA
TACTCCGGTCCCAAACTTCTCCAGTCAGCCAGTCCAGGCCAAGCTCTTCTCCCAAAGGCTTCTGCAGGCCAA
AATCGTCTGAAGTCACCTCTGCAGGCCAGCTCCTGCCTCCAAGTGTGTGTAGGCCAAGCTAATGCCTCACA
GCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAACTTACTCCAGTTGGCCTCTCCA
GACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCAAAATTGTCTCAAGTCAGCCTCTCCAGGGCCAACTCCTA
GCTACCGGTGGCTTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTACACCCAGCTCTTGTCTGTAAGTGGC

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FIGURE 2230B

CTCTGCAGGAGCAAACTGCCTCAAGTCGGCCTCTCCAGGCCAGCCTCCTGCTTCCCGAGGGCATGTACAGGCC
CAGCCTCTGCCTCACAGCAGACTCTCCATGCCCAGCTCTTCCCTGTCTGCTGCCTCTCCAGTCCAAAGCTGCGCC
TGCCTTTCGGCAACTTGTACGGGGCCAGCTCCTCCCTCACGGTGGCCTCTTTTCGCCCCAACTCATGCCTCTTGCA
ACCTGCCCCAAGTGTCAGCTCCTGCCTCACACTGGCCTCTTGAGGCTCAGCTCATGCCTCTCGTGGCCTCAACGGG
CCCAGCCCCCTGCCTGTGCGCGGCCTCTACAGGCCAGCCTCTACCTCACAGTGGGCTCTCCAGGCCACCTCTTT
CTCACCGTGGCCTCCTGGGGCAATGCTCCCCGCTCTCGGGAGCCTCTGCGGGCCCAGCTCCTGCCTCCAGTGGC
CTCTGTAGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCAGGCCTAGCGTTTGCTGCTTTGCATCCTCTCCAGGCT
CTGGACTTCTCCAGTCGGCCTCTCCAGGCCAGCTCTTCCCTCCCGGCGGCCTCTGCAGGCCAGACTGTTGTCA
AGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGTGCCCTCTGCAGGCCCAAGTCGTCTCAAGTCGGCCTCCC
CAGGCCAGCTCCGGCCTCTCGGCGGCCGCTCCAGGTGAAAAGTTCTCGAGTCAGCCTCTCCAGGCCAGCTC
CTCCTGCCTCCCAGCGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCTGCGTCTCTAGGCCCGACTCCGG
CCTCCCAACAACCTCTTTGGACTCAGCTCCTGCCTCTCGAAGGCCTGCACGGGGCCCAGCCTCAGCCTCACAGCGG
ACTCTCCACGCCCAGCTAGCTCTCGCCTCACTGCGGCCTCCCCAGTCGAAAGCTCCTGCCTTTCGGCCGCTTTGG
CAGGCCAGCTCCTGCCTGCCAGTGGCCTCTTTAGGCCAGCTCATTCTCACAACGGCCTTTCAGGCCCGTT
TTTCCCTTCCGGCAGCCTTTTGGCCTCTAATTTGTTTATCTTTTGTGTATAAATCCCAAAATATGGAATTTTGA
ATATTGCTACCAT

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FIGURE 2231

MLPPGSLSRPRTFSSQPLQTKLMTHNGLFRPIPYLTAVSADEPTASQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSGPASASLWTPQAKLPTFQQLLHTQ
LLPPSGLSRPSSCFTRAFAGPTFVSWQPSLARFLLVSQQPRQAQVLPHTGLSTSSSCLTLASPGPTPVPGRHLRA
QNLLKSDSLVPTAAFWWPMKAQNLLKLTSPGPAPASCQHLQAQPLPHGVFSRPTSSSWLGLQAQLLPHNSLFWPS
SCPAHGGQCRPKTSSSQTLQAHLLLPGGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPEAKFLLACQQPQQ
AQLLPHSGPFSPNS

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FIGURE 2232A

GGGAAGCGCGCCGCGCACCTCATGGTTCCGGGGACAGTTAGGGCGGCGGATGGAGGTCAGCGGTGGTGCTCGCTG
CGGTTTGGAACTACTTGCTAGGAGTCTTGCTCTCTGCCACCCAGGACATCATGGCAGCTCACCTGGTAAAGCGA
TGCACGTGCCTCCTGAGAGAAGCTGCTCGTCAGGCCCTGCCATGGCTCCAGTTGGCCGACTGAGACTTGCCCTGG
GTAGCCCATAGACTCTGACTTCCTCAGCCACCTCACCCATTTCCACCTCCCAGGTTCCCTTGATGGAGCCGGTG
GAGAAGGAACGAGCATCTACTCCCTACATAGAGAAGCAGGTGGACCACCTCATCAAGAAGGCCACAAGGCCAGAG
GAGCTCCTGGAGCTACTTGGTGGCAGTCACGACTTGGACAGCAATCAAGCAGCAATGGTACTTATCCGGCTCTCT
CACTTGCTGTCTGAGAAGCCAGAAGATAAAGGCTTGCTCATAACAGGATGCCCCACTTTCATCAACTTCTCTGTCTG
CTCAACAGTCAGATTGCCCTCGGTCTGGCATGGTACCCTCTCGAAGCTGCTGGGAAGCCTGTATGCTCTGGGCATC
CCCAAGGCCTCCAAGGAGCTGCAGTCGGTGGAGCAGGAGGTCCGCTGGCGCATGCGGAAGCTCAAGTACAAGCAC
CTGGCCTTCTGGCAGAGTCCCTGTGCCACCCTCTCACAGGAGCAGCACTCGCAGGAGCTGCTGGCTGAGCTGCTC
ACACACCTGGAAAGGCGTTGGACAGAAATTGAAGATTCCACACATTAGTGACCGTCATGATGAAGGTGGGACAC
CTCTCGGAGCCACTAATGAACCGCTTGAAGACAAGCACGTCTGAACAGAGCGCAGGACATCACCTGCCCCAC
CTGTGCAGCGTACTTCTGGCTTTTGCGCGTCTGAACCTCCATCCAGACCAAGAGGATCAGTTCTTCAGCCTGGTA
CATGAGAAGCTGGGGTCAGAGCTGCCAGGCCTGGAGCCAGCCCTGCAGGTGGACCTGGTGTGGGCCCTGTGTGTG
CTGCAGCAGGCACGGGAAGCAGAGCTGCAAGCCGTCTCCACCCTGAATTTACATCCAATTTCTAGGGGGCAAG
TCTCAGAAGGATCAGAACACCTTCCAGAAGCTGCTCCACATCAACGCCACTGCCCTGCTGGAGTACCCCGAGTAC
TCGGGTCCCTTCTGCCTGCCTCGGCTGTGGCCCTGGGCCCTCAGCCCTTGACAGGAAGGTGACCCCCCTGCAA
AAGGAGCTGCAGGAGACGCTGAAGGGGCTGCTGGGGAGCGCCGACAAGGGCAGCCTCGAGGTGGCCACGCAGTAT
GGCTGGGTGCTGGATGCTGAGGTGCTGCTGGACAGTGACGGCGAGTTTCTGCCCGTAAGGGACTTTGTGGCACCT
CACCTTGCCAGCCAACTGGGAGCCAGTCACCACCTCCAGGGTCTAAGAGGCTAGCGTTCTTGCGGTGGGAGTTC
CCCAACTTCAACAGCCGAAGCAAGGACTTGCTGGGTGCTTTGTTCTGGCCCGGCGACACATAGTGGCTGCAGGC
TTCTGATAGTGACGTCCCATTCTATGAGTGGCTGGAACCTCAAGTCTGAATGGCAGAAAGGCGCCTACCTCAAG
GACAAGATGCGCAAAGCGGTGGCTGAGGAGCTGGCCAAGTGAATTGTGCCAGCAGCATGGACTGCGTGCCTCTCC
GCCGAGGTCTAGCTGTGGGCGGCCAAGAAGGGTACCCTTGAGGACAAACCTCTGTGCAGGACCTTGGCCAGAG
TGGGGAGGGTGGCCAGCCACTCTGAGGGACAGAACGTCTCTTGTGTATAATAAACCTTTAATTTTGGTGTGGGA
CCCCTGGGGCCTTCCCAGGCTTGGTCACCCTCTGCACTGTGAGCACTTGTCTGTCTGCTTTGTTGAGCAGGGCGT
GGTTCTCCAGTCTGCCCTGTGCACTCCCCCGCCACGCCAGCCCAAGAGGGCTGCTTTAGGGACAGACCTGGGTT
GTTACCTGCCTGTCTCTCCCAGCTTCTTCCCTCCATGAGTGCTTATTCACATATGCCGGCCTCTTGCGTAGGGGT
CTGTATCAGCCCCAGCAGGCAGGTGGAGTCTAGAATTCTGAACCTCCAGAGCAGAGGAGCTTCCCAGGGAAGCT
GATTGGAGATTAGTGATGGCTGGGGGTTCTGATGGAGCTGTGGCTACTGAACCACAGCCATCCTGGGAGGCTT
TCTCCCATCAGTTGTCTCACACTTAGCTGAGTGAAAGGCACCCTGACAGCATGTGGTGACAGGTGATGTGAGGGC
TGGGTGAGCACTTGGGAGGCGCTGGCTCTGGGAGAGGAGAAGATCCCCTTGGCTGACACCACGGCACCAAGAGC
CAAACCTCCATCGTTGTCTTACCACCCTGACCAGAGCCTTGTGCTGTCTCATCTAGGAAGTGGCTGCCCAAACAGGA
CCCTGGCAGCCTCCCTGCTGCTGCGGGGATTACCAGGTGCTGGGAGGCAACAAGCTTCTACCTTCCAGCCTCTC
CTTAGAGACACCTATTGGCAGAACCTGACTAAATAGCAGTCAGGGAACCTGGGTTGCCTCCAGCCATACAGAACAG
AGAGTAGGACAGTGGGGTGGAGCTGAGATGGAGAGGCCACAGCCCTCAGCACTGTAGGCTCCCAACCCTAGGCT
GTTTCCCCAAAAAGAAAAAGTCTAGTCACTGCTCTGATGCTTGGCCACTCACCCAAGCATTGGGGTAGTTTGTGC
TGGCTTCACTGGGCACCATCAGGCACACCCAGCCTGTAGTTTTTGTATTTATATTACCTAAGTCGGCCAGGTGTGG
TGGGATCACGCCTGTAATCCCAGCACTTAGGGAGGCTGGGGCGGGCGAATCGCCTGAGGCCAGGAATCAAGACC
AACCTGGCCAACATTGTGAAACCTGTCTCTACTAAAAATATAAAAAATTAGTCGGGCATGATGACAGGCACCTGT
AATCCCAGCTACTCAGGAGGCTGAGGCAGGTGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGTTAAGAT
TGTGCCACTGCACTCCAGCCTGGGTAAACAGAGCAAGACTCTGTCTCAAAAAATATATATGTGTGTGTGTGTGT
GTATATATATGTACATGTGTATATAAGTATATATGTGTGTATATATGTATATATACACGTATATACACACACACC
CCTAAGTCATGATTTTGGAGCAATTGTAAGTGGTGTAGTGCTTAATTTTGGCATTACACATTGATTGTTAGCAT
ATAGAAATGGGATTGATTTTATGTGATCTTGCTAAACTTTATGCATTTTAAAAATTCCTTTGGATTTCCTAIGT
AGATATTTATGTCTGAAAACAGGAATGTATTTATCCTTTCAAATCAATATGCTTTTTTATTTTGTATTATGAC
CACTTCATTAAAAATATAATTACATGCCATACACTTACCCTTTTAAATGTATAATTAGGCCAGGTGTGGTGGC
TCACGTCTGTAATCCCAGCAGTTTGGGAGGCCAAGGCCCTCAGATCTTGAGCCCAGGAGTTCAAGACCACCCTGG

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FIGURE 2232B

GCAACAGGCAAAACCCCTGTCTCTATTTTTTAAAATACAAGAATTAGCCGCAGTGGCAGGCACCTGTCGTCCCAGC
AACCCAGGAGGCTGAGGTAGGAGGATCACTTAAGCCTGGGAAGTCAAGCCTGCAGTGAACCATGATAGCACCCT
GCAGTCCAGCCTGGGCGACAGAGTGAGACCCCATCTCGAAAACAAAAATGTATAATTCAGTGGTTTTTAGTCTCT
TTGCAGATACATGCAACCATCACCACAATTTGCACATTTTCTAAGCCTCATATACTGATGTGATATTTGGTGTT
TTGTGACTGGCTTCATTTACTTAGCATATTGTTTTCATGTTTCATTCATGTGCGCATGTATGAGTATTCATTCCTT
TATTTGGCTGAATAATATCCATTATAGTTTGTGCCACATTTTGTTTATCCATTCATCCATTGATGGACATGTGG
ATTGTTTCCACCTTCTGGATAATATGAACTGATACAGTTTGGATATTTTGTCCCCTCCAAATCTCATGAAATAGG
ATCACCAGTGTTGGAGAATGGGGCCTGTTAGGAAGTGTTTGGATCATAGGAACATCTGTCAATAATGGCTTGGTG
CCATCCTTGTAATGAGTGAGTTCTTGCTCTATATTAGTTCACTTGAAAGCTGGTTGTTGGGAACTCCTGCCCTAT
CTGTTCTGCCCTCTCTCGTCATGTGACATGCCTGCTCCTTGTTACCTTCTGTGTCATGAGTAAAAGCTTCCTAAGG
CCTTCCCAGGAGCCAAGCAGATGTCAGTACCATGCTTGTACAGCCTGCAGAACTGTGAGCCAAATAAACTTCTTT
ATAAATT

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FIGURE 2233

MAAHLVKRCTCLLREAAQAPAMAPVGRRLRLAWVAHKTLTSSATSPISHLPGSLMEPVEKERASTPYIEKQVDHL
IKKATRPEELLELLGGSHDLDSNQAAMVLIRLSHLLSEKPEDKGLLIQDAHFHQLLCLLNSQIASVWHGTL SKLL
GSLYALGIPKASKELQSVEQEVWRMRKLKYKHLAFLAESCATLSQEQHSQELLAELLTHLERRWTEIEDSHTLV
TVMMKVGHLSPEPLMNRLDKHVLNRAQDITLPHLCVLLAFARLNFHPDQEDQFFSLVHEKLGSELPGLEPALQV
DLVWALCVLQQAREAELOAVLHPEFHIQFLGGKSQKDQNTFQKLLHINATALLEYPEYSGP LLPASAVAPGPSAL
DRKVTPLQKELQETLKGLLGSADKGSLEVATQYGWVLD AEVL LDDSDGEFLPV RDFVAPHLAQPTGSQSPPPGSKR
LAFLRWEFPNFNRSKDLLGRFVLARRHIVAAGFLIVDPFYEWLELKSEWQKGAYLKDKMRKAVAEELAK

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FIGURE 2234

GGCACGAGGCCCGGGTCGAGCATGTAGCGGCTGCTGGCGGCGGGGCTCCCGGGGCGGGCCGGGCGGGCCGCGGGA
GCCGCACGCGGCGGATATCGAAAGAGGAGGGCAAGAAGGGCAAGAAGCCTGGAATTGTCTCGCCATTTAAACGAGTA
TTCCTAAAAGGTGAAAAGAGTAGAGATAAGAAAGCCCATGAGAAGGTGACAGAGAGGGCGCCCTCTGCACACTGTG
GTGTTGTCAATTGCCTGAGCGCGTCGAGCCAGACAGACTGCTGAGCGACTATATTGAGAAGGAGGTAAAGTATTTA
GGTCAGTTAACGTCCATACCAGGATACCTGAATCCCTCCAGTAGGACTGAAATCCTGCATTTTCATAGACAATGCA
AAGAGAGCCCACCAGCTTCCGGGACACTTGACTCAGGAGCACGATGCTGTGCTCAGCCTGTCTGCGTACAACGTC
AAGCTGGCCTGGAGGGACGGGGAGGATATCATCCTCAGGGTGCCCATCCATGACATCGCCGCCGTCTCCTATGTT
CGGGATGACGCTGCACACCTGGTGGTCCCTGAAGACAGCCCAGGACCCAGGGATCTCCCCCAGCCAGAGTCTGTGT
GCGGAAAGTTCCAGAGGCCTCAGTGCAGGCTCCCTGTGCGAGAGTGAGTTGGGCCCCGTGGAGGCATGCTGCCTG
GTCATCCTGGCTGCAGAGAGCAAGGTGCGTGCGGAGGAGCTTTGCTGTCTGCTAGGCCAGGTCTTCCAGTTGTT
TACACGGAGTCCACCATCGACTTTCTGGACAGAGCGATATTTGATGGGGCCTCTACCCCGACCCACCACCTGTCC
CTGCACAGCGATGACTCTTCTACAAAAGTGACATTAAGGAGACCTACGAGGTGGAAGCCAGCACTTTCTGCTTC
CCTGAATCTGTGGATGTGGGTGGTGCATCACCCACAGCAAGACCATCAGTGAGAGCGAGCTGAGCGCCAGCGCC
ACTGAGCTGCTGCAGGACTACATGCTGACGCTGCGCACCAAGCTGTATCACAGGAGATCCAGCAGTTTGCAGCA
CTGCTGCACGAGTACCGCAATGGGGCCTCTATCCACGAGTTCTGCATCAACCTGCGGCAGCTCTACGGGGACAGC
CGCAAGTTCCCTGCTGCTTGGTCTGAGGCCCTTCATCCCTGAGAAGGACAGCCAGCACTTCGAGAACTTCCTGGAG
ACCATTGGCGTGAAGGATGGCCGCGGCATCATCACTGACAGCTTTGGCAGGCACCGGCGGGCCCTGAGCACCACA
TCCAGTTCCACCACCAATGGGAACAGGGCCACGGGCAGCTCTGATGACCGGTGCGCACCCCTCAGAGGGGGATGAG
TGGGACCGCATGATCTCGGACATCAGCAGCGACATTGAGGCGCTGGGCTGCAGCATGGACCAGGACTCAGCATTGA

TGGACAGTGGATGGGGGGGCACCCACACCTTCCGCGCAGTCGTCATAGGCCTTCCCAGAAGGAGCTGCCCAGACC
TGCGTGTGAGCCCTTGTTGGTGGCCAGGGAGAGGCGCCCGGTGCAGATGGCCCCGGGCGGGCCAGGTCTCTACT
GTGAAGGAGCAGGGAGCTGCCGAGGGACACGAGCCTCAGTGCGGGGTGGAAGGCTCTTTGCCCTTGTCACCAGGG
CTCAGCCAAGCCCTGCAGTGTGTCCCGCTCGGGGAGGGCCCGGCCGAGCGGGCAGGGAGAGCCAGTCCTGTGCGG
CTGGGCCCTTGACGGCTGTGAGTTTTGCACATGATGTTCTATTGTAACCTCTCAGAGACCTTAAAAAGAAGTTT
ACTGCAATGTGAATAATTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2235

MEEEGKKGKKPGIVSPFKRVFLKGEKSRDKKAHEKVTERRPLHTVVLSLPERVEPDRLLSDYIEKEVKYLGQLTS
IPGYLNPSSRTEILHFIDNAKRAHQLPGHLTQEHDVLSLSAYNVKLAWRDGEDIIILRVPIHDIAAVSYVRDDAA
HLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSES AVGPVEACCLVILAAESKVAAEELCCLLGQVFQVYTEST
IDFLDRAIFDGASTPTHHLSLHSDDSSTKV DIKETYEVEASTFCFPESVDVGGASPHSKTISESELSASATELLQ
DYMLTLRTLKSSQEIQQFAALLHEYRNGASIHEFCINLRQLYGDSRKFLLLGLRPFIPKDSQHFENFLETIGVK
DGRGIITDSFGRHRRALSTTSSSTTNGNRATGSSDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA

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FIGURE 2236

TGGGGTTCTGAACCAGCAAGACAAGCGGGCATTGGCCACAGCAGCGCGAGGCGGGCACGGGGTATTGTCCGGCTCC
GGCGGGCGGCGGTTCGGTGCTGCGAGAGCGGCGGCGGCGCGGGTTCGGCAGCGGGAGGGCGCGGCGCCGAGCGGA
GGCGGAGTCGGCGCCGAGAACAATGGCTGGAGGCCAAAGCTGGAAAGGACAGTGGGAAGGCCAAGGCTAAGGCAGTA
TCTCGCTCACAGAGAGCTGGGCTACAGTTTCCTGTGGGCGCATCCACAGACACTTGAAGACTCGCACCACAAGC
CATGGAAGGGTGGGTGCCACTGCTGCCGTGTACAGTGCTGCGATTCTGGAGTACCTCACTGCAGAGGTGCTGGAG
CTGGCAGGTAATGCTTCTAAGGATCTCAAAGTAAAGCGTATCACTCCGCGTCACTTGCAGCTTGCAATCCGTGGT
GATGAAGAGTTGGATTCTCTTATCAAGGCTACCATAGCTGGGGGTGGTGTGATCCCTCACATCCACAAATCTCTG
ATTGGAAGAAGGGACAGCAGAAAACCTGCTTAGAGGGATGCTTTAACCAACCCTCTTCTCCCCGTCATTGTACT
GTAAGTGGGACAGAAGAAATAATGGGGATATGTGGAATTTTTAACAACAGTTAAATGGAAAAGCATAGACAATTA
CTGTAGACATGATAAAAGAAACATTTGTATGTTCTTAGACTCGAAGTTTGATAAAAGTACCTTTTCATGTGGTGA
CAGTTGTGTGTTGATTGGCTAGGTTTCTCCCGTGTGTTTTATACAAAATGGAATTGATAAACCATTTTTTACAA
AATTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2237

MAGGKAGKDSGKAKAKAVSRSQRAGLQFPVGRIHRHLKTRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASK
DLKVKRITPRHLQLAIRGDEELSLIKATIAGGGVIPHIHKSLIGKKGQOKTA

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FIGURE 2238

GTTTTGCAGACGCCACCGCCGAGGAAAACCGTGTA CTATTAGCCATGGTCAACCCACCGTGTTCTTCGACATTG
CCGTCGACGGCGAGCCCTTGGGCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGAAAATT
TTCGTGCTCTGAGCACTGGAGAGAAAGGATTTGGTTATAAGGGTTCCTGCTTTCACAGAATTATTCAGGGTTTA
TGTGTCAGGGTGGTGACTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAAATTTGAAGATG
AGAACTTCATCCTAAAGCATACGGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGTTCCC
AGTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCA
TGAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACT
GTGGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGATCATTCCCTTCTGTAGCTCAGGAGAGCA
CCCCGCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTT
TCCTTGTTCCCTCCCATGCCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACTAAATAACAATT
GTC

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FIGURE 2239

MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFYKGS CFHRIIPGFMCQGGDFTRHNGTGG
KSIYGEKFEDENFILKHTGPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIVEAMERFGSRNG
KTSKKITIADCGQLE

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FIGURE 2240A

GCAGTTGTGAAAACTTCAGGACAAAAATGTTTCATTTAAGGACTTGTGCTGCTAAGTTGAGGCCATTGACGGCT
TCCCAGACTGTAAAGACATTTTCACAAAACAGACCAGCAGCAGCTAGGACATTTCAACAGATTCCGGTGCTATTCT
GCACCTGTTGCTGCTGAGCCCTTTCTCAGTGGGACTAGTTCGAATATGTGGAGGAGATGTACTGTGCTTGGCTG
GAAAACCCCAAAAGTGTACATAAGTCATGGGACATTTTTTTTCGCAACACGAATGCCGGAGCCCCACCGGGCACT
GCCTACCAGAGTCCCCTTCCCCTGAGCCGAGGCTCCCCTGGCTGCTGTGGCCCATGCACAGTCCCCTGGTAGAAGCA
CAGCCCAACGTGGACAAGCTCGTGGAGGACCACCTGGCAGTGCAGTCGCTCATCAGGGCATATCAGATACGAGGG
CACCATGTAGCACAGCTGGACCCCCTGGGGATTTTGGATGCTGATCTGGACTCCTCCGTGCCCCGTGACATTATC
TCATCCACAGACAACTTGGGTTCTATGGCCTGGATGAGTCTGACCTCGACAAGGTCTTCCACTTGCCCACCACC
ACTTTCATCGGGGGACAGGAATCAGCACTTCCTCTGCGGGAGATCATCCGTGCGCTGGAGATGGCCTACTGCCAG
CATATTGGGGTGGAGTTCATGTTTCATCAATGACCTGGAGCAGTGCCAGTGGATCCGGCAGAAGTTTGAGACCCCT
GGGATCATGCAGTTCACAAATGAGGAGAAACGGACCCTGCTGGCCAGGCTTGTGCGGTCCACCAGGTTTGAGGAG
TTCCTACAGCGGAAGTGGTCCCTCTGAGAAGCGCTTTGGTCTAGAAGGCTGCGAGGTACTGATCCCTGCCCTCAAG
ACCATCATTGACAAGTCTAGTGAGAATGGCGTGGACTACGTGATCATGGGCATGCCACACAGAGGGCGGCTGAAC
GTGCTTGCAAATGTATCAGGAAGGAGCTGGAACAGATCTTCTGTCAATTGATTCAAAGCTGGAGGCAGCTGAT
GAGGGCTCCGGAGATGTGAAGTACCACCTGGGCATGTATACCGCAGGATCAATCGTGTACCGACAGGAACATT
ACCTTGTCCTTGGTGGCCAACCCCTTCCCACCTTGAGGCCGCTGACCCCGTGGTGTATGGGCAAGACCAAAGCCGAA
CAGTTTTTACTGTGGCGACACTGAAGGGAAAAAGGTCATGTCCATCCTGTTGCATGGGGATGCTGCATTTGCTGGC
CAGGGCATTGTGTACGAGACCTTCCACCTCAGCGACCTGCCATCCTACACAACATCATGGCACCGTGCACGTGGTC
GTCAACAACCAGATCGGCTTACCACCGACCCTCGGATGGCCCGCTCCTCCCCCTACCCCACTGACGTGGCCCGA
GTGGTGAATGCCCCATTTTCCACGTGAACCTCAGATGACCCCGAGGCTGTATGTACGTGTGCAAAGTGGCGGCC
GAGTGGAGGAGCACCTTCCACAAGGACGTGGTTGTGCGATTTGGTGTGTTACCGGCGCAACGGCCACAACGAGATG
GATGAGCCCATGTTACGCAGCCGCTCATGTACAAGCAGATCCGCAAGCAGAAGCCTGTGTTACAGAAGTACGCT
GAGCTGCTGGTGTGCGAGGGTGTGGTCAACCAGCCTGAGTATGAGGAGGAAATTTCCAAGTATGATAAGATCTGT
GAGGAAGCTTTTGCCAGATCTAAAGATGAGAAGATCTTGACATTAAGCACTGGCTGGACTCTCCCTGGCCTGGC
TTCTTACCCTGGACGGGCAGCCCAGGAGCATGTCTGCCCCCTCCACGGGTCTGACGGAGGATATTCTGACACAC
ATCGGGAATGTGGCTAGTTCTGTGCTGTGGAAAACCTTTACTATTTCATGGAGGGCTGAGCCGGATCTTGAAGACT
CGTGGGGAAATGGTGAAGAACCGGACTGTGGACTGGGCTCTAGCGGAGTACATGGCGTTTGGCTCGCTCCTGAAG
GAGGGCATCCACATTTCGGCTGAGCGGCCAGGACGTGGAGCGGGGCACATTCAGCCACCGCCACCATGTGCTCCAT
GACCAGAATGTGGACAAGAGAACCTGCATCCCCATGAACCATCTCTGGCCCAATCAGGCCCCCTATACTGTGTGC
AACAGCTCACTGTCTGAGTACGGCGTGTGGGCTTTGAGCTGGGCTTCGCCATGGCCAGTCCTAATGCCCTGGTC
CTCTGGGAAGCCCAATTTGGTGACTTCCACAACACGGCCAGTGTATCATCGACCAGTTCATCTGCCCGGGACAA
GCCAAGTGGGTGCGGCAGAATGGCATCGTGTGTGCTGCTGCCCCATGGCATGGAGGGCATGGGTCCAGAACATTCC
TCCGCCCCGCCAGAGCGGTTCTTGCAGATGTGCAACGATGACCCAGATGTCTGCCAGACCTTAAAGAAGCCAAC
TTCGACATCAATCAGCTATATGACTGCAATTGGGTTGTTGTCAACTGCTCCACTCCTGGCAACTTCTTCCACGTG
CTACGACGCCAGATCCTGCTGCCATTCGGGAAGCCGTTAATTATCTTACCCCCAAATCCCTGTTGCGCCACCCC
GAGGCCAGATCCAGCTTTGATGAGATGCTTCCAGGAACCCACTTCCAGCGGGTGATCCCAGAAGATGGCCCTGCA
GCTCAGAACCAGAAAATGTCAAAAGGCTTCTCTTGTGACCGGCAAAGTGTATTATGACCTCACCCGGGAGCGC
AAAGCACGCGACATGGTGGGGCAGGTGGCCATACAAGGATTGAGCAGCTGTGCGCATTCCTTTGACCTCCTG
CTGAAGGAGGTGAGAAGTACCCCAATGCTGAGCTGGCCTGGTGCCAGGAGGAGCACAAGAACCAAGGCTACTAT
GACTACGTGAAGCCAAGACTTCGGACCACCATCAGCCGCGCCAAGCCCGTCTGGTATGCCGGCCGGGACCCAGCG
GCTGCTCCAGCCACCGGCAACAAGAAGACCCACCTGACGGAGCTGCAGCGCCTCCTGGACACGGCCTTCGACCTG
GACGTCTTCAAGAACTTCTCGTAGATGCTGCCTAGGGTTGCTTGGGCCACTGCCCTCTCCACACCCATGACTGCC
CCTTGCTTCTCAACTAAAGAATAGTGCTCAGCGCTGCCACACCACCGCCCTCCTCGCTGTGCCACCACCCCTC
CCTCTGCTCTCATAGGAGTTAGGCTGTCGTCCCCCTCCAGTGCTTGGCTGCCCCACAGGCCACACGCTGCCAGG
CTCTGCTGACTTCTGAGCAGTTTCCAGGAGGCGGGGGGAGCAGGAGGAGGAAAGGTAGCCCCCGAGGGATGTC
CTTGGGGAGGGGTGAGCTCTGGCCACAATCCTCCCCACAGTCTCACCCACTAGGATAGGAACTGGGCTTGTGT
GCTGGCTTCCGCTGTACCCAGCAAGGCACAGGCTCCTGTATTTGAGACTAGGATAGCTTCATCTTGAGCCTGAG
CCTTAGAATCTGTAGAGGAGCCTGGAGTCGGATCTAGCCATGGCTGGCAGAGGTTTCTAGGGTGGCCCCAGCCG

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FIGURE 2240B

TGGCGTGAAGTGAAGATGACCCGGGGCAGCTGGCAGGAGAGAGCCTTGGCCTGACCTGGCACAGAAAGGGCAGCT
TCAGTCTCTGCAGTGTCCATTATCTGCTGTTCTTCGAGGGTTCCAGGCTGTGTGTGGGGCCCAAGCATGCCCCA
CCCACCCCTCCTGGGGCCAGGCAGCACCTGGAGCCACAGAGTCTGTGTGTAGCCAGGAAGCCCCGCTCAGGTAG
CCACCACCGGGGCACTGGCTGCTCTGTCTTGGTCCTGTAAACCCTCCACCTCCTCTCTTGGACTCCCTCCCCACC
CCAACCACTCTTTCTTTCTCCTTTAACCCAATGGAGACTTTCTGATGCATCGTTTTCTTTGCTGTGCCAAAGCAG
GTCAGAAGAGGGAGAGGAGGGGCTGGGGGTGAGGGGCCAGGCCATGGCCAAGGGGCCAGCTGCCCCTCATTATC
ACTCTGACCTTCACAGGGACAGATCTGATTTATTTATTTTGGTT

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FIGURE 2241

MFHLRTCAAKLRPLTASQTVKTFSONRPAAARTFQQIRCYSAPVAAEPFLSGTSSNYVEEMYCAWLENPKSVHKS
WDIFFRNTNAGAPPGTAYQSPLPLSRGSLAAVAHAQSLVEAQPNVDKLVEDHLAVQSLIRAYQIRGHHVAQLDPL
GILDADLDSSVPADIISSTDKLGFGYGLDESDDKVFHLPPTTFFIGGQESALPLREIIRRLEMAYCQHIGVEFMFI
NDLEQCQWIRQKFETPGIMQFTNEEKRTLLARLVRSTRFEEFLQRKWSSEKRFGLGCEVLIPALKTIIDKSSSEN
GVYVIMGMPHRGRLNVLANVIRKELEQIFCQFDSKLEAADEGSGDVKYHLGMYHRRINRVTDNRNITLSLVANPS
HLEAADPVVMGKTKAEQFYCGDTEGKKVMSILLHGDAAFAGQGIVYETFHLSDLPSYTHGTVHVNNQIGFTT
DPRMARSSPYPTDVARVVNAPIFHVNSDDPEAVMYVCKVAAEWRSTFHKDVVVDLVCYRRNGHNEMDEPMFTQPL
MYKQIRKQKPVLPQKYAELLVSQGVVNQPEYEEIISKYDKICEEAFARSKDEKILHIKHWLDSPWPGFTLDGQPR
SMSCPSTGLTEDILTHIGNVASSVPVENFTIHGGLSRILKTRGEMVKNRTVDWALAEYMAFGSLLKEGIHIRLSG
QDVERGTFSHRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSLSEYGVLGFEFGFAMASPNALVLWEAQFGDF
HNTAQCIIDQFICPGQAKWVRQNGIVLLLPHGMEGMGPEHSSARPERFLQMCNDDPDVLPDLKEANFDINQLYDC
NWVVVNCSTPGNFFHVLRRQILLFPRKPLIIFTPKSLLRHPEARSSFDEMLPGTHFORVIPEDGPAAQNPENVKR
LLFCTGKVYYDLTRERKARDMVGQVAITRIEQLSPFPFDLLLKEVQKYPNAELAWCQEEHKNQGYDYVKPRLRT
TISRKPVWYAGRDPAAAPATGNKKTHLTELRLLDTAFDLDVFNFS

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FIGURE 2242

GCTGCTCCCGCTCGCGTCGGTGGCGTTTTTCCTGCAGCGCGTGCGTGCTGCGCTACTGAGCAGCGCCATGGAGGA
CTCTGAAGCACTGGGCTTCGAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTCACCGATCTGGGCTGGTC
GCGACCTACGCTGATCCAGGAGAAGGCCATCCCCTGGCCCTAGAAGGGAAGGACCTCCTGGCTCGGGCCCCGCAC
GGGCTCCGGGAAGACGGCCGCTTATGCTATTCCGATGCTGCAGCTGTTGCTCCATAGGAAGGCGACAGGTCCGGT
GGTAGAACAGGCAGTGAGAGGCCTTGTTCTTGTTCCCTACCAAGGAGCTGGCACGGCAAGCACAGTCCATGATTCA
GCAGCTGGCTACCTACTGTGCTCGGGATGTCCGAGTGGCCAATGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAG
AGCTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGGACCCCATCTCGCATATTAAGCCACTTGCAGCAAGACAG
CCTGAAACTTCGTGACTCCCTGGAGCTTTTGGTGGTGGATGAAGCTGACCTTCTTTTTTCTTTTGGCTTTGAAGA
AGAGCTCAAGAGTCTCCTCTGTCACTTGCCCCGGATTTACCAGGCTTTTCTCATGTCAGCTACTTTTAACGAGGA
CGTACAAGCACTCAAGGAGCTGATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCTGGGCC
AGACCAGTTACAGCAGTTTCAGGTGGTCTGTGAGACTGAGGAAGACAAATTCCTCCTGCTGTATGCCCTGCTCAA
GCTGTCTATTGATTCGGGGCAAGTCTCTGCTCTTTGTCAACACTCTAGAACGGAGTTACCGGCTACGCCTGTTCTT
GGAACAGTTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGTGCCACATCATCTACA
GTTCAACCAAGGCTTCTACGACTGTGTATAGCAACTGATGCTGAAGTCTGGGGGCCCCAGTCAAGGGCAAGCG
TCGGGGCCGAGGGCCCAAAGGGGACAAGGCCTCTGATCCGGAAGCAGGTGTGGCCCGGGGCATAGACTTCCACCA
TGTGTCTGCTGTGCTCAACTTTGATCTTCCCCAACCCTGAGGCCTACATCCATCGAGCTGGCAGGACAGCACG
CGCTAACAACCCAGGCATAGTCTTAACCTTTGTGCTTCCCACGGAGCAGTTCCACTTAGGCAAGATTGAGGAGCT
TCTCAGTGGAGAGAACAGGGGCCCCATTCTGCTCCCCTACCAGTTCCGGATGGAGGAGATCGAGGGCTTCCGCTA
TCGCTGCAGGGATGCCATGCGCTCAGTGAATAAGCAGGCCATTCCGGAGGCAAGATTGAAGGAGATCAAGGAAGA
GCTTCTGCATTCTGAGAAGCTTAAGACATACTTTGAAGACAACCCTAGGGACCTCCAGCTGCTGCGGCATGACCT
ACCTTTGCACCCCGCAGTGGTGAAGCCCCACCTGGGCCATGTTCTGACTACCTGGTTCTCCTGCTCTCCGTGG
CCTGGTACGCCCTCACAAGAAGCGGAAGAAGCTGTCTTCTCTTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAA
CCCCTGCGCAGCTTCAAGCACAAAGGAAAGAAATTCAGACCCACAGCCAAGCCCTCCTGAGGGTTGTTGGGCCCTC
TCTGGAGCTGAGCACATTGTGGAGCACAGGCTTACACCCTTCGTGGACAGGCGAGGCTCTGGTGCTTACTGCACA
GCCTGAACAGACAGTTCTGGGGCCGGCAGTGCTGGGCCCTTTAGCTCCTTGGCACTTCCAAGCTGGCATCTTGCC
CCTTGACAACAGAATAAAAAATTTAGCTGCCCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 2243

MEDSEALGFEHMGIDPRLLQAVTDLGWSRPTLIQEKAIPLALEGKDLLARARTGSGKTAAYAIPMLQLLLHRKAT
GPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAAEDSVSQRAVLMEKPDVVVGTPSRILSHLQ
QDSLKLKRDSELELLVDEADLLFSFGFEEELKSLLCHLPRIYQAFILMSATFNEDVQALKEILHNPVTLKLQESQL
PGPDQLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSRCHI
ISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASDPEAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGR
TARANNPGIVLTFVLPTEQFHLGKIEELLSENRGPILLPYQFRMEEIEGFRYRCRDAMRSVTKQAIREARLKEI
KEELLHSEKLKTYFEDNPRDLQLLRHDLPLHPAVVKPHLGHVDPDYLVPPALRGLVRPHKKRKKLSSSCRKAKRAK
SQNPLRSFKHKGKKFRPTAKPS

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FIGURE 2244

TCTTCCTCGGCGCTGCCTACGGAGGTGGCAGCCATCTCCTCCTCGGCATCATGGCCGCCCTCAGACCCCTTGTGA
AGCCCAAGATCGTCAAAAAGAGAACCAAGAAGTTCATCCAGCACCAGTCAGACCAATATGTCAAAATTAAGCGTA
ACTGGCGGAAACCCAGAGGCACTGACAACAGGGTTCGTAGAAGATTCAAGGGCCAGATCTTGATGCCCAACATTG
GTTATGGGAGCAACAAAAAACAAGCACATGCTGCCCAGTGGCTTCCGGAAGTTCCTGGTCCACAACATCAAGG
AGCTGGAAGTGCTGCTGATGTGCAACAAATCTTACTGTGCCGAGATCGCTCACAATGTTTCCTCCAAGAACCGCA
AAGCCATCGTGGAACAGCTGCCCAACTGGCCATCAGAGTCACCAACCCCAATGCCAGGCTGCGCAGCGAAGAAA
ATGAGTAGACAGCTCGTGTGCACGTTTTCTGTTTAAATAAATGTAAAACTGC

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FIGURE 2245

GCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTGAGGGCGCGGAGCCATGAAGCTGTACAGC
CTCAGCGTCCTCTACAAAGGCGAGGCCAAGGTGGTGCTGCTCAAAGCCGCATACGATGTGTCTTCCTTCAGCTTT
TTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACTGATTGTGGAGCGCTCATCGAAAGGCACT
AGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCGGAATGATAGTCTTGCAGGTGTGGTCATT
GCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAAGGTACTAGATGAATTCTCCAAGCAAGTC
GACAGGATAGACTGGCCAGTAGGATCCCCTGCTACAATCCATTACCCAGCCCCTGGATGGTCACCTCAGTAGATAC
CAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAAGTACTAGATGAGACCAAAATCATTCTGCACAAC
ACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGTGTCCAAATCCGAGGTGCTGGGAACACAG
TCTAAAGCCTTCTATAAAACTGCCCGGAAACAAACTCATGCTGTGCCATCATGTGATGCAGCCTGCCAGAGGCC
CAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCTGGAAAAGAAGAGACA

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FIGURE 2246

CGGGATGCGGCGCGCCGCGGTTGAACCTCCTTGGCCTGGGCGAAGCTGTGTGGACCAAGCAAGTCAGGAGTGTG
GCCATGTTTTTCTGAGCAGGCTGCCCAGAGGGCCCCACACTCTACTGTCCCCACCATCAGCCAACAATGCCACCTTT
GCCCCGGTGCCAGTGGCAACCTACACCAACTCCTCACAAACCCTTCCGGCTAGGAGAGCGCAGCTTTAGCCGGCAG
TATGCCCACATTTATGCCACCCGCCTCATCCAAATGAGACCCTTCCTGGAGAACCAGGGCCCCAGCAGCACTGGGGC
AGTGGAGTGGGAGTGAAGAAGCTGTGTGAAGTGCAGCCTGAGGAGAAGTGCTGTGTGGTGGGCACTCTGTTCAAG
GCCATGCCGCTGCAGCCCTCCATCCTGCGGGAGGTGAGCGAGGAGCACAACCTGCTCCCCCAGCCTCCTCGGAGT
AAATACATACACCCAGATGACGAGCTGGTCTTGGAAGATGAAGTGCAGCGTATCAAACTAAAAGGCACCATTGAC
GTGTCAAAGCTGGTTACGGGGACTGTCTGGCTGTGTTTGGCTCCGTGAGAGACGACGGGAAGTTTCTGGTGGAG
GACTATTGCTTTTGTGACCTTGCTCCCCAGAAGCCCGCACCCCCACTTGACACAGATAGGTTTGTGCTACTGGTG
TCCGGCCTGGGCCTGGGTGGCGGTGGAGGCGAGAGCCTGCTGGGCACCCAGCTGCTGGTGGATGTGGTGACGGGG
CAGCTTGGGGACGAAGGGGAGCAGTGCAGCGCCGCCACGTCTCCCGGGTTATCCTCGCTGGCAACCTCCTCAGC
CACAGCACCCAGAGCAGGGATTCTATCAATAAGGCCAAATACCTCACCAAGAAAACCCAGGCAGCCAGCGTGGAG
GCTGTTAAGATGCTGGATGAGATCCTCCTGCAGCTGAGCGCCTCAGTGCCCGTGGACGTGATGCCAGGCGAGTTT
GATCCCACCAATTACACGCTCCCCCAGCAGCCCCCTCCACCCCTGCATGTTCCCGCTGGCCACTGCCTACTCCAG
CTCCAGCTGGTACCAACCCCTACCAGGCCACCATTGATGGAGTCAGATTTTTTGGGGACATCAGGACAGAACGTG
AGTGACATTTTCCGATACAGCAGCATGGAGGATCACTTGGAGATCCTGGAGTGGACCCTGCGGGTCCGTACATC
AGCCCCACAGCCCCGGACACTCTAGGTTGTTACCCCTTCTACAAAACCTGACCCGTTTCATCTTCCAGAGTGCCCG
CATGTCTACTTTTGTGGCAACACCCCCAGCTTTGGCTCCAAAATCATCCGAGGTCCTGAGGACCAGACAGTGCTG
TTGGTGAAGTGTCCCTGACTTCAGTGCCACGCAGACCGCCTGCCTTGTGAACCTGCGCAGCCTGGCCTGCCAGCCC
ATCAGCTTCTCGGGCTTCGGGGCAGAGGACGATGACCTGGGAGGCCTGGGGCTGGGCCCCTGACTCAAAAAAGTG
GTTTTGACCAGAGAGGCCCCAGATGGAGGCTGTTTCATTCCTGCAGTGTGCGCATTGTAAATAAAGCCTGGCACTT
GCTGATGCG

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FIGURE 2247

MFSEQAAQRAHTLLSPFSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHYATR LIQMRPFLENRAQQHWGS
GVGVKKLCELOPEEKCCVVGTLFKAMPLQPSILREVSEEHNLLQPPRSKYIHPDDELVLEDELQRIKLKGTIDV
SKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTRFVLLVSGGLGLGGGGGESLLGTQLLVDVVTGQ
LGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFD
PTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHIS
PTAPDTLGCYPFYKTDPFIFPECPhVYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLVNLRSLACQPI
SFSGFGAEDDDLGGGLGLGP

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FIGURE 2248A

TCCCTCGCTCACCCCATCCTCTCTCCCGCCCCTTCCTGGATTCCCTCACCCGTCTCGATCCCTCTCCGCCCTTT
CCCAGAGACCCAGAGCCCCTGACCCCCCGCGCCCTCCCCGGAGCCCCCGCGCGTGCCGCGGCCATGGCGGCCGT
GCGCGGGGCGCCCCCTGCTCAGCTGCCTCCTGGCGTTGCTGGCCCTGTGCCCTGGAGGGCGCCCGCAGACGGTGCT
GACCGACGACGAGATCGAGGAGTTCTCTGAGGGCTTCCTGTGAGAGCTAGAACCTGAGCCCCGGGAGGACGACGT
GGAGGCCCCGCGCCTCCCGAGCCCACCCCGCGGGTCCGAAAAGCCAGGCGGGGGCAAGCCAGGGAAGCGGCC
AGGGACGGCCGAGAAAGTGCCTCCGAAAAAGACCAAGACAAAGGGAAGAAAGGCAAGAAAGACAAAGGCCCAA
GGTGCCCAAGGAGTCCTTGGAGGGGTCCCCCAGGCCGCCCAAGAAGGGGAAGGAGAAGCCACCCAAGGCCACCAA
GAAGCCCAAGGAGAAGCCACCTAAGGCCACCAAGAAGGCCCAAGGAGAAGCCACCCAAGGCCACCAAGAAGGCCCAA
AGAGAAGCCACCCAAGGCCACCAAGAAGCCCCCGTCAGGGAAGAGGGCCCCCATTCTGGCTCCCTCAGAAACCCT
GGAGTGGCCACTGCCCCACCCCCCAGCCCTGGCCCCGAGGAGCTACCCAGGAGGGAGGGGCGCCCTCTCAAA
TAACTGGCAGAATCCAGGAGAGGAGACCCATGTGGAGGCACGGGAGCACCAGCCTGAGCCGGAGGAGGAGACCGA
GCAACCCACACTGGACTACAATGACCAGATCGAGAGGGAGGACTATGAGGACTTTGAGTACATTGCGCGCCAGAA
GCAACCCAGGCCACCCCCAAGCAGAAGGAGGAGGCCCGAGCGGTCTGGCCAGAGCCCCCTGAGGAGAAGGCCCC
GGCCCCAGCCCCGGAGGAGAGGATTGAGCCTCCTGTGAAGCCTCTGCTGCCCCGCTGCCCCCTGACTATGGTGA
TGTTACGTGATCCCCAACTACGATGACATGGACTATTACTTTGGGCCTCCTCCGCCCCAGAAGCCCGATGCTGA
GCGCCAGACAGACGAAGAGAAGGAGGAGCTGAAGAAACCCAAAAGGAGGACAGCAGCCCCAAGGAGGAGACCGA
CAAGTGGGCACTGGAGAAGGGCAAGGACCACAAAGAGCCCCGAAAGGGCGAGGAGTTGGAGGAGGAGTGGACGCC
TACGGAGAAAGTCAAGTGTCCCCCATTGGGATGGAGTCACACCGTATTGAGGACAACCAGATCCGAGCCTCCTC
CATGCTGCGCCACGGCCTGGGGGCACAGCGCGGCCGGCTCAACATGCAGACCGGTGCCACTGAGGACGACTACTA
TGATGGTGCCTGGTGTGCCGAGGACGATGCCAGGACCCAGTGGATAGAGGTGGACACCAGGAGGACTACCCGGTT
CACAGGCGTCATACCCAGGGCAGAGACTCCAGCATCCATGACGATTTTGTGACCACCTTCTTCGTGGGCTTCAG
CAATGACAGCCAGACATGGGTGATGTACACCAACGGCTATGAGGAAATGACCTTTTCATGGGAACGTGGACAAGGA
CACACCCGTGCTGAGTGAGCTCCAGAGCCGGTGGTGGCTCGTTTCATCCGCATCTACCCACTCACCTGGAATGG
CAGCCTGTGCATGCGCCTGGAGGTGCTGGGGTGTCTGTGGCCCCCTGTCTACAGCTACTACGCACAGAATGAGGT
GGTGGCCACCGATGACCTGGATTTCCGGCACACAGCTACAAGGACATGCGCCAGCTCATGAAGGTGGTGAACGA
GGAGTGCCCCACCATCACCCGCACTTACAGCCTGGGCAAGAGCTCACGAGGCCTCAAGATCTATGCCATGGAGAT
CTCAGACAACCCCTGGGGAGCATGAACTGGGGGAGCCCCGAGTTCCGCTACACTGCTGGGATCCATGGCAACGAGGT
GCTGGGCCGAGAGCTGTTGCTGCTGCTCATGCAGTACCTGTGCCGAGAGTACCGCGATGGGAACCCACGTGTGCG
CAGCCTGGTGCAGGACACACGCATCCACCTGGTGCCCTCACTGAACCTGATGGCTACGAGGTGGCAGCGCAGAT
GGGCTCAGAGTTTGGGAAGTGGGCGCTGGGACTGTGGACTGAGGAGGGCTTTGACATCTTTGAAGATTTCCCGGA
TCTCAACTCTGTGCTCTGGGGAGCTGAGGAGAGGAAATGGGTCCCCTACCGGGTCCCCAACAAATAACTTGCCAT
CCCTGAACGCTACCTTTCGCCAGATGCCACGGTATCCACGGAGGTCCGGGCCATCATTGCCTGGATGGAGAAGAA
CCCCCTCGTGCTGGGAGCAAATCTGAACGGCGGCGAGCGCTAGTATCTACCCCTACGATATGGCCCCGACGCC
TACCCAGGAGCAGCTGCTGGCCGAGCCATGGCAGCAGCCCCGGGGGAGGATGAGGACGAGGTCTCCGAGGCCCA
GGAGACTCCAGACCACGCCATCTTCCGGTGGCTTGCCATCTCCTTCGCTCCGCACACCTCACCTTGACCGAGCC
CTACCGCGGAGGCTGCCAAGCCCAGGACTACACCGCGGCATGGGCATCGTCAACGGGGCCAAGTGGAAACCCCCG
GACCGGGACTATCAATGACTTCAGTTACCTGCATACCAACTGCCTGGAGCTCTCCTTCTACCTGGGCTGTGACAA
GTTCCCTCATGAGAGTGAGCTGCCCCGCGAGTGGGAGAACAACAAGGAGGCGTGCTCACCTTCATGGAGCAGGT
GCACCGCGGCATTAAGGGGGTGGTGACGGACGAGCAAGGCATCCCCATTGCCAACGCCACCATCTCTGTGAGTGG
CATTAAATCACGGCGTGAAGACAGCCAGTGGTGGTGATTACTGGCGAATCTTGAACCCGGGTGAGTACCGCGTGAC
AGCCACGCGGAGGGCTACACCCGAGCGCCAAGACCTGCAATGTTGACTATGACATCGGGGCCACTCAGTGCAA
CTTCATCCTGGCTCGTCCAACCTGGAAGCGCATCCGGGAGATCATGGCCATGAACGGGAACCGGCCTATCCCACA
CATAGACCCATCGCGCCCTATGACCCCCAACAGCGACGCTGCAGCAGCGACGCTACAACACCGCCTGCGGCT
TCGGGCACAGATGCGGCTGCGGCGCCTCAACGCCACCACCACCTAGGCCCCCACTGTGCCTCCACGCTGCC
CCCTGCCCCCTGCCACCACCTGAGCACTACCATAGAGCCCTGGGGCCTCATACCGCCAACCACCGCTGGCTGGGA
GGAGTCGGAGACTGAGACCTACACAGAGGTGGTGACAGAGTTTGGGACCGAGGTGGAGCCCGAGTTTGGGACCAA
GGTGGAGCCCCGAGTTTGGAGCCAGTTGGAGCCTGAGTTTGGAGCCAGCTGGAACCCGAGTTTGGGAAGAGGA
GGAGGAGGAGAAAGAGGAGGAGATAGCCACTGGCCAGGCATTCCCCTTCAACACAGTAGAGACCTACACAGTGAA

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FIGURE 2248B

CTTTGGGGACTTCTGAGATCAGCGTCCTACCAAGACCCCAGCCCAACTCAAGCTACAGCAGCAGCACTTCCCAAG
CCTGCTGACCACAGTCACATCACCCTCAGCACATGGAAGGCCCTGGTATGGACACTGAAAGGAAGGGCTGGTC
CTGCCCCTTTGAGGGGGTGCAAACATGACTGGGACCTAAGAGCCAGAGGCTGTGTAGAGGCTCCTGCTCCACCTG
CCAGTCTCGTAAGAGATGGGGTTGCTGCAGTGTTGGAGTAGGGGCAGAGGGAGGGAGCCAAGGTCACCTCCAATAA
AACAAAGCTCATGGC

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FIGURE 2249

GTTTCCCTCTGCGTTCGCTCCGCGCTGCTGGAGGCTGTGCTCCCAATGCTCCCCAAACGGCGGGCGAGCGCGGGTC
GGGTCCCCCTAGCGGCGATGCCGCTTCCTCCACGCCGCCCTCGACGCGCTTCCCGGGAGTCGCCATCTACCTGGTC
GAGCCTCGCATGGGTGCGCAGCCGCCGGGCCTTCCTCACAGGCCTGGCGCGCTCCAAAGGCTTCCGCGTCTTGAC
GCCTGCAGCTCCGAAGCGACACATGTTGTGATGGAAGAGACCTCAGCAGAGGAGGCCGTGAGCTGGCAGGAGCGC
AGGATGGCAGCTGCTCCCCGGGTTCACCCCCCAGCTCTGCTGGACATAAGCTGGTTAACAGAGAGCCTGGGA
GCTGGGCAGCCTGTACCTGTGGAGTGCCGGCACCGCCTGGAGGTGGCTGGGCCAAGGAAGGGGCCTCTGAGCCCA
GCATGGATGCCTGCCTATGCCTGCCAGCGCCCTACGCCCTCACACACCACAACACTGGCCTCTCCGAGGCTCTG
GAGATACTGGCCGAGGCAGCAGGCTTTGAAGGCAGTGAGGGCGCCTCCTCACCTTCTGCAGAGCAGCCTCGGTG
CTCAAGGCCCTTCCAGCCCTGTCAACCCCTGAGCCAGCTGCAGGGGCTTCCCCACTTTGGAGAACACTCCTCT
AGGGTTGTCCAGGAGCTGCTGGAGCATGGAGTGTGTGAGGAGGTGGAGAGAGTTCGGCGCTCAGAGAGGTACCA
ACCATGAAGCTCTTACCCAGATCTTCGGGGTGGTGTGAAGACTGCTGACCGGTGGTACCGGGAAGGACTGCGA
ACCTTAGATGACCTCCGAGAGCAGCCCCAGAACTAACCCAACAGCAGAAAGCGGGGCTCCAGCACCACCAGGAC
CTGAGCACCAGCTCTGCGGTCCGATGTAGATGCCCTGCAGCAGGTGGTGGAGGAAGCTGTGGGGCAGGCCCTG
CCTGGGGCCACCGTACGCTGACCGCGGCTTCGCGAGGGGGAAGTTGCAGGGCCATGACGTGGACTTCTCATC
ACCCACCCCAAGGAGGGTACAGAGCGGGGCTGCTGCCTAGAGTGTGTGCCGCTGCAGGACCAGGGCCTCATC
CTGTACCACCAGCACCAGCACAGCTGCTGTGAGTCCCCTACCGCCTGGCCCAACAGAGCCACATGGACGCTTTT
GAGAGAAGTTTCTGCATTTTCCGCCTACCACAACCTCCAGGGGCTGCTGTGGGGGGATCCACGAGGCCCTGCCA
TCCTGGAAGGCCGTGAGAGTGGACTTGGTAGTTGCACCGCTCAGCCAGTTCCCTTTCGCCCTGCTCGGTTGGACT
GGCTCCAAGCTTTTCCAGCGGGAGCTGCGCCGCTTCAGCCGGAAGGAGAAGGGCCTGTGGCTGAACAGCCATGGG
CTGTTTGACCCGGAGCAGAAGACATTTTCCAAGCGGCTTCAGAGGAAGACATCTTCAGACACCTGGGCCTTGAG
TACCTTCTCCAGAGCAGAGAAACGCCCTGAGCCTGCCTGTGTCCCCCACTTCCACTCAGGAAATTGGGCTGCCCC
CAACCTGGCCACTGAATGTCTCCAGGCAGATATGCTGCCCCCTGACCCCCACCTTCACCCCTCCCCGCCAAGGCC
TGGCTCTTCCGGAGGTCAATTGTGCCTGCAGGATCAGTTGAGCCCCCTGCTGGTGTGCTGCAGGGTGTGATGAGGT
GGGAGCCCTCAGTGCCAGCCTCATCACTGTGTGACCCTGGGTCTGCTCTTAGCCTCCCCATGGCTCACGTTCTTG
CCCTGGATGGGATGTGAGTGGGGCCACATCGTGGAGCTGTGGTGGGGCCTGCAGTCATGAATGGCAAGTGGTCC
CTGATGTGCACTGTCTCATTAGTTGCACTGCAGTTAACTGTGGCTCCTGCAGGGCACCTGCCAGAAATGCCAG
AAGAGAACCATGCATACCTGCACTGCATTTGAGAGCCATGAGCTGGAGGCTGTGGTTTCGTGCCAGCAAGGAGCCT
ACTGTCTGGTGTGCTGTAGGCATCTGGAGAGGGAGAGGGCCTGGGTAGGAGCTGGGAGGAAGATAATTTTCACT
ATGGGGCTTCAGTACTGCAGCGCCCCGAGCCAGGCTCTGTGCTTCTGCCTTTAAGGCCTGTTCTCAGCACAATGT
CTCAAAAATAGGTATATCTGCCACTCCCGTCGCAGAGCCCTTTAATGGTTCCAAACCCTAAGTCCACACATAG
CCCCTGGCTCTGGCATCTCTCCAGCCCCACTGGCCCCGAGCTGCTTGAATCACCAGGCTTCTTATTTGATGCACCC
AGGCCCCCTTGTGGCCAACTCCCTCCCCTTCTCACTGAGGCAGAAGCACTGAGGTGGGCTGGACATGGGTGCCCT
CCACGTCCCTCATATCCCCAGGCACACTCTGGCCTCAGGTTTTGCCCTGGCCATGTCATCTACCTGGAGTGGGCC
CTCCCCTTCTCAGGCCTTGAATCAAAAGCCACTTTGTAGGCGAGGATTTCCAGACCACTCATCACATTAAAA
AATATTTTGAACATGCAGT

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FIGURE 2250

MLPKRRRARVGSPSGDAASSTPPSTRFPGVAIYLV EPRMGRSRRAFLTGLARSKGFRVLDACSSEATHVVMETS
AEEAVSWQERRMAAAPPGCTPPALLDISWLTESLGAGQVPVVECRHRLEVAGPRKGPLSPAWM PAYACQRPTPLT
HHNTGLSEALEILAEAAGFEGSEGRLLTFCRAASVLKALPSPVTTLSQLQGLPHFGEHSSRVVQELLEHGVC EEV
ERVRRSERYQTMKLEFTQIFGVGVKTADRWYREGLRTLDDLREQPQKLTQQQKAGLQHHQDLSTPVLRS DVDALQQ
VVEEAVGQALPGATVTLTGGFRRGKLQGHVDVDFLITHPKEGQEAGLLPRVMCRLQDQGLILYHQHQHSCCESPTR
LAQQSHMDAFERSFCIFRLPQPPGAAVGGSTRPCPSWKAVRVDLVVAPVSQFFPFALLGWTGSKLFQRELRRFSRK
EKGLWLNSHGLFDPEQKTFFQAASEEDIFRHLGLELYLPPEQRNA

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FIGURE 2251

GGCACGAGGGCGGAGACTGCGGGGCGGGCCATGGCGGCGAACCTGAGCCGGAACGGGGCCAGCGCTGCAAGAGGCC
TACGTGCGGGTGGTCACCGAGAAGTCCCCGACCGACTGGGCTCTCTTTACCTATGAAGGCAACAGCAATGACATC
CGCGTGCGTGGCACAGGGGAGGGTGGCCTGGAGGAGATGGTGGAGGAGCTCAACAGCGGGAAGGTGATGTACGCC
TTCTGCAGAGTGAAGGACCCCAACTCTGGACTGCCCAAATTTGTCCTCATCAACTGGACAGGCGAGGGCGTGAAC
GATGTGCGGAAGGGAGCCTGTGCCAGCCACGTCAGCACCATGGCCAGCTTCCTGAAGGGGGCCCATGTGACCATC
AACGCACGGGGCCGAGGAGGATGTGGAGCCTGAGTGCATCATGGAGAAGGTGGCCAAGGCTTCAGGTGCCAACTAC
AGCTTTTACAAGGAGAGTGGCCGCTTCCAGGACGTGGGACCCCAAGGCCCCAGTGGGCTCTGTGTACCAGAAGACC
AATGCCGTGTCTGAGATTAAGGGTGGTAAAGACAGCTTCTGGGCCAAAGCAGAGAAGGAGGAGGAGAACCGT
CGGCTGGAGGAAAAGCGGCGGGCCGAGGAGGCACAGCGGCAGCTGGAGCAGGAGCGCCGGGAGCGTGAGCTGCGT
GAGGCTGCACGCCGGGAGCAGCGCTATCAGGAGCAGGGTGGCGAGGCCAGCCCCCAGAGCAGGACGTGGGAGCAG
CAGCAAGAAGTGGTTTCAAGGAACCGAAATGAGCAGGAGTCTGCCGTGCACCCGAGGGAGATTTTCAAGCAGAAG
GAGAGGGCCATGTCCACCACCTCCATCTCCAGTCTCAGCCTGGCAAGCTGAGGAGCCCCCTTCCTGCAGAAGCAG
CTCACCCAACAGAGACCCACTTTGGCAGAGAGCCAGCTGCTGCCATCTCAAGGCCCAGGGCAGATCTCCCTGCT
GAGGAGCCGGCGCCAGCACTCCTCCATGTCTGGTGCAGGCAGAAGAGGAGGCTGTGTATGAGGAACCTCCAGAG
CAGGAGACCTTCTACGAGCAGCCCCCACTGGTGCAGCAGCAAGGTGCTGGCTCTGAGCACATTGACCACCACATT
CAGGGCCAGGGGCTCAGTGGGCAAGGGCTCTGTGCCCGTGGCCTGTACGACTACCAGGCAGCCGACGACACAGAG
ATCTCCTTTGACCCCGAGAACCTCATCACGGGCATCGAGGTGATCGACGAAGGCTGGTGGCGTGGCTATGGGCCG
GATGGCCATTTTGGCATGTTCCCTGCCAACTACGTGGAGCTCATTGAGTGAGGCTGAGGGCACATCTTGCCCTTC
CCCTCTCAGACATGGCTTCCTTATTGCTGGAAGAGGAGGCCTGGGAGTTGACATTCAGCACTCTTCAGGAATAG
GACCCCCAGTGAGGATGAGGCCTCAGGGCTCCCTCCGGCTTGGCAGACTCAGCCTGTCACCCCAATGCAGCAAT
GGCCTGGTGATTCCCACACATCCTTCCTGCATCCCCCGACCCTCCCAGACAGCTTGGCTCTTGCCCCTGACAGGA
TACTGAGCCAAGCCCTGCCGTGGCCAAGCCCTGAGTGGCCACTGCCAAGCTGCGGGGAAGGGTCTGAGCAGGG
GCATCTGGGAGGCTCTGGCTGCCTTCTGCATTTATTTGCCTTTTTTCTTTTCTTCTTGCTTCTAAGGGGTGGTGG
CCACCACTGTTTAGAATGACCCTTGGAACAGTGAACGTAGAGAATTGTTTTTAGCAGAGTTTGTGACCAAAGTC
AGAGTGGATCATGGTGGTTTGGCAGCAGGGAATTTGTCTTGTGGAGCCTGCTCTGTGCTCCCCACTCCATTTCT
CTGTCCCTCTGCCCTGGGCTATGGGAAGTGGGGATGCAGATGGCCAAGCTCCCACCCTGGGTATTCAAAAACGGCA
GACACAACATGTTCCCTCCACGCGGCTCACTCGATGCCTGCAGGCCCCAGTGTGTGCCTCAACTGATTCTGACTTC
AGGAAAAGTAACACAGAGTGGCCTTGGCCTGTTGTCTTCCCCTATTTTCTGTCCCAGCTCATCCGTGTCTCTGAA
GAACAAATATGCTTTTGGACCACGAAA

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FIGURE 2252

MAANLSRNGPALQEAYVRVVEKSPDWDALFTYEGNSNDIRVAGTGEGGLEEMVEELNSGKVMYAFCRVKDPNSG
LPKFVLINWTGEGVNDVRKGACASHVSTMASFLKGAHVTINARAEEDVEPECIMEKVAKASGANYSFHKESGRFQ
DVGFPQAPVGSVYQKTNAVSEIKRVGKDSFWAKAEKEEENRRLEEKRAEEAQRQLEQERRERELREAAARREQRYQ
EQGGEASPOSRTWEQQQEVVSRNRNEQESAVHPREIFKQKERAMSTTSISSPQPGKLRSPFLQQLTQPEHFGFR
EPAAAI SRPRADLPAAEEPAPSTPPCLVQAEEEAVYEEPPPEQETFYEQPPLVQQQGAGSEHIDHHIQGGGLSGQGL
CARALYDYQAADDTEISFDPENLITGIEVIDEGWWRGYGPDGHFGMFPANYVELIE

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FIGURE 2253

GGGGAGAGCGGGTGTGTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGGCGGGTCCGTGACCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGCGGC
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCCG
CCCCAGGCCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCCGGGCGGGGAGCTGGGCAGGGGGAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTCATGAGAAAAAGAAGAAAGGCCAAGATTGTCGGATGGAAATAATTCATGAGATTGCTGTA
CTTGAAGTAGCACAAAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTACACACTCGTGATGTAGTTTCATCTTGAT
TTGAAGCCTCAGAATATTTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATTCTTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCATTCTGTGCCTGAAATTAATTCGATACCGACAAATCAGAAACC
AAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA
TTTATCTACTGAGCAATATTTCCCTTTAGAACTTCAAGATTTCTACATTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACAGGAGATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCACTTTCTTTAAAAAATCCAAGTAAAGTGCCAAAACCTACACTTCTGTAAATCTCTTGCAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTAAATGTCTACTAAAATTGCTACTTTTTTCACTTTGGATTT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTGGTTTCTGTTGTGTTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCCTAATTTTTTTTCTCTTCAATGTCAGTAAAGAGAGGTGGTAATTTTTTCACC
TCTGAAATTATTCTGGGTTTAGGTGTCAGCTCTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCTGTCACCTCCCCCATGCTTGTCAATTTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAAGTGAAGAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAATCCCTTAGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTTC
TGCTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAAACATTTACT
TTGTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTA
CTAATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTA
AAATATGGAAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGC
ATTAAATATTTGCCTATC

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FIGURE 2254

ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTTCAGCCCGTCTGGTAAACTTGTCCAGATTGAATATGCT
TTGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAATGGTGTGGTATTAGCAACTGAGAAA
AAACAGAAATCCATTCTGTATGATGAGCGAAGTGTACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTG
TACAGTGGCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAACCTAGCTCAACAATACTATCTTGTG
TACCAAGAACCCATTCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAATATACTCAGTCAGGT
GGTGTTTCGTCCATTTCGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATATTTATTTTCAGTCAGAT
CCATCTGGAGCTTACTTTGCCTGGAAAGCTACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTTCCTTGAG
AAAAGATATAATGAAGATCTGGAACCTTGAAGATGCCATTTCATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAA
GGGCAAATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAAGTAA
GTTAAGGATTACTTGGCTGCCATAGCATAACAATGAAGTGACTGAAAAATCCAGAATTTTCAGATAATCTATCTAC
TTAAACATGTTTAAAGTATGTTTTGTTTTGCAGACTTTTTGCATACTTATTTCTACATGGTTTAAATCGACTGTT
TTTAAATGACACTTATAAATCCTAATAAACTGTTAAACCC

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FIGURE 2255

MAERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDERSVHKVEPITKHIGLV
YSGMGPDYRVLVHRARKLAQQYYLVYQEP IPTAQLVQRVASVMQEYTSQSGGVRPFGVSLICGWNEGRPYLFQSD
PSGAYFAWKATAMGKNYVNGKTFLEKRYNEDLELEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTE
VKDYLAAlA

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FIGURE 2256

GCTCGGCGCCCTCTTCCCTGCAAACCATGTTTGCCAAAGGCAGAGGCTCGGCGGTGCCCTCGGATGGGCAGGCTT
GGGAAAAGTTAGCTTCATACGTCTACGAATATTTACTGCACGTAAGAGTACAGAAATCTGCAGAGACCTTCTTGT
CGGAGATTTCGATGGGAAAAAACATCACGTTGGGAGAACCGCCTGGGTTTTTGCCTCGTGGTGGTGTGATTG
GGGACCTTTACTGTGCAGCTCCTCAAAGGAGAGACACTTGTGAACATTCAAGTGAAGCAAAGCCTTTTCATGATT
ATAGTGCAGCAGCTGCCCCGAGCCCCGTGCTTGCCAACATTCCCCCAACGATGGGATGCCGGGAGGCCCCATCC
CGCCAGGTTTCTTTCAGGGTCCTCCGGGGTCACAGCCCTCGCCGCACGCACAGCCTCCACCTACAATCCTAGCA
GCATGATGGGACCCACAGTCAGCCTCCGGGAGGAGTTCTTGGGACACAGCCATTGCTGCCCAATTCTATGGATC
CCACACGACAACAAGGCCACCCCAACATGGGAGGATCAATGCAGAGAATGAACCCTCCCCGAGGCATGGGGCCCA
TGGGTCCCGGCCACAGAATTACGGCAGCGGCATGAGACCACCACCAACTCCCTCGGCGGCCATGCCCGGGAT
TAACATGGGCGCGGAGCTGGCAGACCCTGGCCCAATCCTAACAGTGCTAACTCAATTCCATATTCCTCCTCATC
ACCTGGTACCTATGTGGGACCCCGGTGGTGGCGGCCCTCCAGGAACACCCATTATGCCAGTCCCGCAGATTCA
ACAAATTCAGTGACAACATCTACACAATGACCTGGCGGCAGGTCCAACCTCCCGATGGGTCCCGGCTCGGACGG
TCCGATGGGCGGCATGGGTGGCATGGAGCCACACCACATGAATGGATCATTAGGGTCAGGCGACATAGACGGACT
TCCAAAAAATTCCTTAACAACATAAGTGGCATTAGCAATCCTCCAGGCACCCCTCGAGATGACGGCGAGCTAGG
AGGGAGCTTCCTCCACTCCTTTTCAAGATGACAATTATTCTCCAAGCATGACGATGAGTGTGTGATCCCCCTTCT
CCGAGACGCTGAGAGAGCCGGCATTGCAGGCGGGAAGACGCCAGAAATTATGCAAGAAGTGAGGTGTTATTATCC
AGGAGCTGGTGGGAGGGCATCTCCCTGCTCCCCTAAACCCCTCCACCCCATCCACGCCCCCTACCTTTCCCA
ATTTTAGTTTCATGCAATAAAAAGGCCAAACTTTTTATTCCATAAAAC

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FIGURE 2257

MFAKGRGSAVPSDGQAWEKLASVYVEYLLHVRVQKSAETFLSEIRWEKNITLGEPPGFLHSWWCVFGDLYCAAPQ
RRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGFFQPFMSPRYVGGPGPPIRMGNQPPGGVLGT
QPLL PNSMDPTRQQGHFNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPSLGPFCPGLTWARELADPGPIILTV
LTQFHIPP HHLVPMWDPRWWRPSRNTHYAQSRRFNKFQ

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FIGURE 2258

GGCGGGTTCGCGCCCCGAAGGCTGAGAGCTGGCGCTGCTCGTGCCCTGTGTGCCAGACGGCGGAGCTCCGCGGCC
GGACCCCGCGGCCCCGCTTTGCTGCCGACTGGAGTTTGGGGGAAGAACTCTCCTGCGCCCCAGAGGATTTCTTC
CTCGGCGAAGGGACAGCGAAAGATGAGGGTGGCAGGAAGAGAAGGGCGCTTTCTGTCTGCCGGGGTTCGACGCGG
AGAGGGCAGTGCCATGTTCTCTCCATCCTAGTGGCGCTGTGCCTGTGGCTGCACCTGGCGCTGGGCGTGCAGCGG
CGCGCCCTGCGAGGCGGTGCGCATCCCTATGTGCCGGCACATGCCCTGGAACATCACGCGGATGCCCAACCACCT
GCACCACAGCACGCAGGAGAACGCCATCCTGGCCATCGAGCAGTACGAGGAGCTGGTGGACGTGAACTGCAGCGC
CGTGCTGCGCTTCTTCTCTGTGCCATGTACGCGCCCAATTTGCACCCTGGAGTTCCTGCACGACCCTATCAAGCC
GTGCAAGTCGGTGTGCCAACGCGCGCGGACGACTGCGAGCCCCCTCATGAAGATGTACAACCACAGCTGGCCCGA
AAGCCTGGCCTGCGACGAGCTGCCTGTCTATGACCGTGGCGTGTGCATCTCGCCTGAAGCCATCGTTCACGGACCT
CCCGGAGGATGTTAAGTGGATAGACATCACACCAGACATGATGGTACAGGAAAGGCCTCTTGATGTTGACTGTAA
ACGCCTAAGCCCCGATCGGTGCAAGTGTAAAAGGTGAAGCCAACCTTGGCAACGTATCTCAGCAAAAACCTACAG
CTATGTTATTTCATGCCAAAATAAAGCTGTGCAGAGGAGTGGCTGCAATGAGGTCACAACGGTGGTGGATGTAAA
AGAGATCTTCAAGTCTCATCACCATCCCTCGAACTCAAGTCCCGCTCATTACAAATTCTTCTTGCCAGTGTCC
ACACATCCTGCCCCATCAAGATGTTCTCATCATGTGTTACGAGTGGCGCTCAAGGATGATGCTTCTTGAAAATTG
CTTAGTTGAAAAATGGAGAGATCAGCTTAGTAAAAGATCCATACAGTGGGAAGAGAGGCTGCAGGAACAGCGGAG
AACAGTTCAGGACAAGAAGAAAACAGCCGGGCGCACCAGTTCGTAGTAATCCCCCAAACCAAAGGGAAAGCCTCC
TGCTCCCAAACAGCCAGTCCCAAGAAGAACATTAAAACTAGGAGTGCCCAAGAGAACAACCCGAAAAGAGT
GTGAGCTAACTAGTTTCCAAAGCGGAGACTTCCGACTTCTTACAGGATGAGGCTGGGCATTGCCTGGGACAGCC
TATGTAAGGCCATGTGCCCTTGCCCTAACAACTCACTGCAGTGCTCTTCATAGACACATCTTGACGATTTTTTC
TTAAGGCTATGCTTCAGTTTTTCTTTGTAAGCCATCACAAGCCATAGTGGTAGGTTTGCCCTTTGGTACAGAAGG
TGAGTTAAAGCTGGTGGAAAAGGCTTATTGCATTGCATTAGAGTAACCTGTGTGCATACTCTAGAAGAGTAGGG
AAAATAATGCTTGTTACAAATTCGACCTAATATGTGCATTGTAAAAATAATGCCATATTTCAAACAAAACACGTAA
TTTTTTTACAGTATGTTTTATTACCTTTTGATACTGTGTTGTTGCAATGTTAGTGATGTTTTAAATGTGATCGAA
AATATAATGCTTCTAAGAAGGAACAGTAGTGGAATGAATGTCTAAAAGATCTTTATGTGTTTTATGGTCTGCAGAA
GGATTTTTGTGATGAAAGGGGATTTTTTGAAAAATCTAGAGAAGTAGCATATGGAAAACCTATAATGTGTCTTTTT
TACAATGACTTCAGCTCTGTTTTTAGCTAGAACTCTAAAAACAAAAATAATAATAAGAAAAATAAATAAAAAAG
GAGAGGCAGACAATGTCTGGATTCCGTGTTTTTGGTTACCTGATTTCATGATCATGATGCTTCTTGTCACACCC
TCTTAAGCAGCACCAGAAACAGTGAGTTTGTCTGTACCATTAGGAGTTAGGTACTAATTAGTTGGCTAATGCTCA
AGTATTTTATACCCACAAGAGAGGTATGTCACTCATCTTACTTCCAGGACATCCACCCTGAGAATAATTTGACA
AGCTTAAAAATGGCCTTCATGTGAGTGCCAAATTTGTTTTCTTCATTTAAATATTTTCTTTGCCTAAATACATG
TGAGAGGAGTTAAATATAAATGTACAGAGAGGAAAGTTGAGGTCCACCTCTGAAATGAGAATTACTTGACAGTT
GGGATACTTTAATCAGAAAAAAGAACTTATCTTGACGATTTTATCAACAAATTTTATAATTGTGGACAATTGG
AGGCATTTATTTTAAAAACAATTTTATTGGCCTTTTGCTAACACAGTAAGCATGTATTCTCTATAAGGCATTCA
ATAAATGCACAACGCCCAAAGGAAATAAAATCCTATCTAATCCTACTCTCCACTACACAGAGGTAATCACTATTA
GTATTTTGGCATATTATTCTCCAGGTGTTTCTTATGCACTTATAAAATGATTTGAACAAATAAACTAGGAACCT
GCTATACATGTGTTTCATAACCTGCCTCCTTTGCTTGGCCCTTTATTGAGATAAGTTTTCTGTCAAGAAAGCAG
AAACCATCTCATTTCTAACAGCTGTGTTATATTCCATAGTATGCATTACTCAACAACTGTTGTGCTATTGGATA
CTTAGGTGGTTTCTTCACTGACAATACTGAATAAACATCTCA

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FIGURE 2259A

CGGTGTGCTGGGGCGAGCGGGAGCGGGCGAGGATGGGCACAGGATAGAGGCAGAGCCACCCACGCCGCCGCGGGC
CCACGCTGGGCGACAGAGCCTCCAGTTCCCCTTCAATGGTGGCGGGTCGCCGGAGCTCTGATCGCCGGGAACCCCT
TGCCGCTGCTGTCTGCGACCCCCAAGCAGGTATAGACACGTGTGGCCGTTTACGCTGTAGGATCCTCATTCCCAC
TGGCTTTGAACATTTTGGGGACTTACAATGCCGCCACCCGCGGACATCGTCAAGGTGGCCATAGAATGGCCGGGC
GCCTACCCCAAACTCATGGAAATTGATCAGAAAAAACCACTGTCTGCAATAATAAAGGAAGTCTGTGATGGGTGG
TCTCTTGCCAACCATGAATATTTTGCACCTCCAGCATGCCGATAGTTCAAACCTTCTATATCACAGAAAAGAACCGC
AATGAGATAAAAAATGGCACTATCCTTCGATTAAACCACATCTCCAGCTCAGAACGCCACGACGCTCCATGAACGA
ATCCAGTCTCGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGGATGTCACGTTT
GCCCAGGAGTTTATAAACCTGGACGGTATCTCTCTCCTCACGCAGATGGTGGAGAGCGGCACTGAGCGATACCAG
AAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGTCTTACCCTGACGGCCTTCGTCGAGCTGATG
GACCATGGCATAGTGTCTGGGATACATTTTCGGTGGCGTTTATTAGAAGATAGCAAGTTTTGTGAACAAGTCA
GCCATAGACATCTCGATCCTGCGAGCGGTCTTGGCCATTTTGGAGTCGATGGTGTCTCAATAGCCATGATCTCTAC
CAGAAAGTGGCGCAGGAGATCACCATCGGCCAGCTCATTCCACACCTGCAAGGGTCAGATCAAGAAATCCAAACC
TATACTATTGCAGTGATTAATGCGCTTTTCTGAAGGCTCCTGATGAGAGGAGGCAGGAGATGGCGAATATTTTG
GCTCAGAAGCAACTGCGTTCCATCATTTTAACACATGTCATCCGAGCCAGCGGGCCATCAACAATGAGATGGCG
CACCAGCTGTATGTTCTACAAGTGTCTACCTTTAACCTCCTGGAAGACAGGATGATGACCAAAATGGACCCCCAG
GACCAGGCTCAGAGGGACATCATATTTGAACCTCGAAGAATTGCTTTTGTGCTGAGTCTGAACCTAACACAGC
AGTGGCAGCATGGAGAAACGCAAGTCCATGTACACGCGAGATTATAAGAAGCTTGGGTTTATTATCATGTCAAC
CCTGCCATGGACTTCACGCAGACTCCACCTGGGATGTTGGCTCTGGACAACATGCTGTACTTTGCCAAGCACCAC
CAAGATGCCTACATCCGATTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGCAGT
AGTATAGAGCTGACCAAGATGCTATGTGAGATCTTGAAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTC
CACCCGATGTTCTTACCCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACA
TGGAAGGAAATGAGGGCAACTTCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGAGCA
CTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCCTGAAA
ATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCCCGATTTTGGAACTAAAGGAGAAGATTTCAG
CCAGAAATCTTAGAGCTGATCAAAACAGCAACGCCTGAACCGCCTTGTGGAAGGGACCTGCTTTAGGAAACTCAAT
GCCCCGCGGAGGCAAGACAAGTTTTTGGTATTGTGCGCTTTCGCCAAATCACAAAGTCTGCATTACGGAGACTTA
GAAGAGAGTCTCAGGGAGAAGTGCCCCACGATTCTTGCAGGACAACTGCCGGTGGCAGATATCAAAGCCGTG
GTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAACCTCGCT
TTCTCCATCTTGTATGACTCAAACCTGCCAAGTGAACCTCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACG
GATGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTCAGC
ATGGAAATCAAGCTCCGCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCAAGGAG
CCCAGCAACTATGACTTCGTCTATGACTGTAAGTGGCCGGGCCCCAGACATGCCCTTCCAAAACCTGGAAC
ACCTAGCTAACAGGAGAGGAATGAAAACACACCCACGCCTTGGAAACCGTCTTTGGTAAAGGGAAGCTGTGGG
TCCACATTCCCTTCAGCATCACCTTAGCCCTGGCAACTTTAGCCCTTAGCTGGCATCTTGCTCACCGCCCTGA
TTCTGTTTCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAAGCCCCA
CTGCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCCTTCCCTTGGGCAGGAA
AGCCAGCAGCCCCAGACTGCCCAAAAACCTGCCCACAGACCAAGGGCAGTGGCCCAAGGCCCTGTCTGGAGGA
AATGGCCTAGCTATTTGATGAGAAGACCAAAACCCACATCCTCCTTTCCCTCTCTCTAGAATCATCTCGACCA
CCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCCTGCTTTTGCCTTGCTCTGTTCC
TCTTTGGTCCCAAGAGCAGCAGCCGAGCCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAAACAGTCCACAGG
TCCATGCCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTTTCTCT
TCCCTGCCCCAGGCCAGAACTGCCTTCTTCATTTCCACCCACGCTCCAGCCTCTTAGCTGAAAGCACAAATGGT
GAAATCAGTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTTGCTATCCAAGCG
TTTGGTGTTACCTTCTCCTGGGAGGTCTGCTGCAACTCAAGTTCCACAGGATGGTCAAGCTGTCAGACATCCAA
GTTTACATCATTGTAATTATTACTGGTATTTACAATTTGCAAGAGTTTTGGGTTAGTTTTTTTTTTTTTTTGGCT
TTGTTTTTGGACAAAAGAGTCTAACATTTTTTGGCAAACAGATATATATTTAATGAAAAGAAGAGATACATAAAT
GTGTGAATTTCCAGTTTTTTTTTAATTATTTTAATCCCAAACATCTTCTGAAAATAACATTCCCTTAAACATGC

2457/6881
FIGURE 2259B

TGTGGAATAAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2260

CATTTAAAGGTGTGCGGCGGGTCTCTGTTTACATGGCTCAACTGGAAACCTGTTTCATGAACAAGCTTACTCAGG
AACCATCTGGTGGTATTCCAGCACATTGTTCTTCAGGGGGACGACTCTAAGTCGCTTTGTGGTGGCAGCAGCTTA
GAATCAGTATTTGTGGTTGGGAAAGATGGACTTACGGGAGCTTGGTAAATGCAGGTGGTGAAGGAGCAGGTTATGA
GAGCACTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGATCC
TGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCC GCCCGATT TTTGGA ACTAAAGGAGAAGA
TTCAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCCTGAACCGCCTTGTGGAAGGGACCTGCTTTAGGAAAC
TCAATGCCCCGGCGGAGGCAAGACAAGTTTTTGGTATTGTGCGCTTTTCGCCAAATCACAAAGTCCTGCATTACGGAG
ACTTAGAAGAGAGTCCCTCAGGGAGAAGTGCCCCACGATTTCCTTG CAGGACAAACTGCCGGTGGCAGATATCAAAG
CCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAAC
TCGCTTTCTCCATCTTGTATGACTCAAACCTGCCAACTGAACCTTCATCGCTCCTGACAAGCATGAGTACTGTATCT
GGACGGATGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGC
TCAGCATGGAATCAAGCTCCGCCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCA
AGGAGCCCAGCAACTATGACTTCGTCTATGACTGTAAC TGAAGTGGCCGGGCCCAGACATGCCCCTTCCAAAACCT
GGAACACCTAGCTAACAGGAGAGAGGAATGAAAACACACCCACGCCTTGGAACCGTCCTTTGGTAAAGGGAAGCT
GTGGGTCCACATTCCCTTCAGCATCACCTCTAGCCCTGGCAACTTTTCAGCCCCTAGCTGGCATCTTGCTCACCGC
CCTGATTCTGTTCCCTCGGCTCCACTGCTTCAGGTCACTTCCCATGGCTGCAGTCCACTGGTGGGACAAGAGCAAA
GCCCCTGCCCAGTAAGAAGGCCAAAGGGCCCTTCCATCCTAGCCCTCTGCAGGCATGCCCTTCCTTCCCTTGGGC
AGGAAAGCCAGCAGCCCCAGACTGCCCAAAAACCTTGCCCACCAGACCAAGGGCAGTGCCCCAAGGCCCTGTCTG
GAGGAAATGGCCTAGCTATTTGATGAGAAGACCAAACCCACATCCTCCTTTCCCTCTCTCTAGAATCATCTCG
CACCACCAGTTACACTTGAATTAAGATCTGCGCTCAAATCTCCTCCACCTCTCTCCCTGCTTTTGCTTGCTCT
GTTCTCTTTGGTCCCAAGAGCAGCAGCCGAGCCTCCTCGTGATCCTCCCTAGCATAAATTTCCCAAACAGTCC
ACAGGTCCCATGCCCACTTTGCGTCTGCACTGTGATCGTGACAAATCTTCCCTCCTCACCAGCTAGTCTGGGGTT
TCCTCTCCCTGCCCCAGGCCAGAACTGCCTTCTTCATTTCCACCCACGCTCCCAGCCTCTTAGCTGAAAGCACAA
ATGGTGAAATCAGTAGTCTCGCTCCATCTCTAATAGACTAAACCTAAATGCCTCTAGGACGGACTGTTGCTATCC
AAGCGTTTGGTGTTACCTTCTCCTGGGAGGTCTGCTGCAACTCAAGTCCACAGGATGGTCAAGCTGTCAGACA
TCCAAGTTTACATCATTGTAATTATTACTGGTATTTACAATTTGCAAGAGTTTTTGGGTTAGTTTTTTTTTTTTT
TTGCTTTGTTTTTGGACAAAAGAGTCTAACATTTTTTGCCAAACAGATATATATTTAATGAAAAGAAGAGATACA
TAAATGTGTGAATTTCCAGTTTTTTTTTTAATTATTTTAATCCCAAACATCTTCCTGAAAATAACATTCCCTTAA
CATGCTGTGGAATAAAATGGATTGTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2261

MQVVKEQVMRALTTKPSSLDQFKSKLQNLSTYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQORLNR
LVEGTCFRKLNARRRQDKFWYCRLSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
LKQNKVELELAFSILYDSNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKLRLLDLENIQ
IPDAPPPIPKEPSNYDFVYDCN

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FIGURE 2262

GCACCCGGCAGCGGTCTCAGGCCAAGCCCCCTGCCAGCATGGCCAGCGAGTTCAAGAAGAAGCTCTTCTGGAGGG
CAGTGGTGGCCGAGTTCTGGCCACGACCCTCTTTGTCTTCATCAGCATCGGTTCTGCCCTGGGCTTCAAATACC
CGGTGGGGAACAACCAGACGGCGGTCCAGGACAACGTGAAGGTGTCGCTGGCCTTCGGGCTGAGCATCGCCACGC
TGGCGCAGAGTGTGGGCCACATCAGCGGCGCCACCTCAACCCGGCTGTCACACTGGGGCTGCTGCTCAGCTGCC
AGATCAGCATCTTCCGTGCCCTCATGTACATCATCGCCAGTGCCTGGGGGCCATCGTCGCCACCGCCATCCTCT
CAGGCATCACCTCCTCCCTGACTGGGAACCTCGCTTGGCCGCAATGACCTGGCTGATGGTGTGAACCTCGGGCCAGG
GCCTGGGCATCGAGATCATCGGGACCCTCCAGCTGGTGCTATGCGTGCTGGCTACTACCGACCGGAGGCGCCGTG
ACCTTGGTGGCTCAGCCCCCTTGCCATCGGCCTCTCTGTAGCCCTTGGACACCTCCTGGCTATTGACTACACTG
GCTGTGGGATTAACCTGCTCGGTCTTTTGGCTCCGCGGTGATCACACACAACCTCAGCAACCACTGGATTTTCT
GGGTGGGGCCATTTCATCGGGGGAGCCCTGGCTGTACTCATCTACGACTTCATCCTGGCCCCACGCAGCAGTGACC
TCACAGACCGCGTGAAGGTGTGGACCAGCGGCCAGGTGGAGGAGTATGACCTGGATGCCGACGACATCAACTCCA
GGGTGGAGATGAAGCCCCAATAGAAGGGGTCTGGCCCGGGCATCCACGTAGGGGGCAGGGGCAGGGGCGGGCGGA
GGGAGGGGAGGGGTGAAATCCATACTGTAGACACTCTGACAAGCTGGCCAAAGTCACTTCCCCAAGATCTGCCAG
ACCTGCATGGTCAAGCCTCTTATGGGGGTGTTTCTATCTCTTTCTTTCTTTCTTTCTGTTTCCTGGCCTCAGAGCTT
CCTGGGGACCAAGATTTACCAATTACCCACTCCCTTGAAGTTGTGGAGGAGGTGAAAGAAAGGGACCCACCTGC
TAGTCGCCCCCTCAGAGCATGATGGGAGGTGTGCCAGAAAGTCCCCCCTCGCCCCAAAGTTGCTCACCAGCTCACC
TGCGCAAGTGCCTGGGATTCTACCGTAATTGCTTTGTGCCTTTGGGCAGGCCCTCCTTCTTTTCTAACATGCAC
CTTGCTCCCAATGGTGCTTGGAGGGGGAAGAGATCCCAGGAGGTGCAGTGGAGGGGGCAAGCTTTGCTCCTTCAG
TTCTGCTTGCTCCCAAGCCCCCTGACCCGCTCGGACTTACTGCCTGACCTTGGAATCGTCCCTATATCAGGGCCTG
AGTGACCTCCTTCTGCAAAGTGGCAGGGACCGGCAGAGCTCTACAGGCCTGCAGCCCCTAAGTGCAAACACAGCA
TGGGTCCAGAAGACGTGGTCTAGACCAGGGCTGCTCTTTCCACTTGCCCTGTGTTCTTTCCCCAGGGGCATGACT
GTCGCCACACGCCTCTGCATATATGTCTTTGGAGTTGGAATTTCAATTATATGTTAAGAAAATAAAGGAAAATG
ACTTGTAAGGTC

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FIGURE 2263

MASEFKKKLFWRAVVAEFLATTLFVFISIGSALGFKYPVGNNQTAVQDNVKVSLAFGLSIATLAQSVGHISGAHL
NPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNSLGRNDLADGVNSGQGLGIEIIGTLQLV
LCVLATTDRLRRRDLGGSAPLAIGLSVALGHLLAIDYTGCGINPARSFGSAVITHNFSNHWIFWVGPFFIGGALAVL
IYDFILAPRSSDLTDRVKVWTSGQVEEYDLDDADDINSRVEMKPK

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FIGURE 2264A

TCAGTCCCCGTGCACAGACCTGCACAAATGGCTGAGCCTCATCATTCCCTGACAGCGAGGAGATCTTGGATGTGCC
AGGCCTAGTGAAAGACCAACAATCTCACTGCAGGGCCCGCCAGCCCCAGGGAAGGGGAGGAGTTCTTGCCGCGCC
GACGCCGCCGTGCGCACGGCAACGCGGCCATACTGCGCCGGACAGACCCAGTTGCCTGGTGCTGCGGCCCGGCGT
GGGCCTCGTGGGCAGAGCCAGAGCCAGAGCCATGGACAGCCTCTTCGTGGAGGAGGTGGCCGCCTCCTTGGTCAG
GGAGTTCTCAGCAGAAAGGGCTTAAAGAAGACATGTGTGACCATGGACCAGGAACGCCCACGCTCTGACCTCAG
CATAACAACAGAAATGATCTTCGAAAGGTTTTGCATCTTGAATTTCTCTATAAGGAGAACAAGGCAAAGGAAAA
TCCTCTAAAAACAAGCCTTGAACATCATCACCAGATACTTTCTGGATCACTTTGGAAATACGGCTAACAAATTTAC
TCAAGATACCCCAATCCCTGCACTCTCAGTTCCAAAGAAAAATAACAAAGTGCCATCAAGATGCTCAGAGACTAC
ACTGGTAAATATATATGACCTTTCAGATGAAGATGCAGGATGGAGAACATCATTGTGAGAAACAAGCAAAGCCAG
ACATGACAATCTTGATGGAGATGTACTTGGTAATTTTGTATCATCTAAAAGGCCCCCGCACAAAAGTAAGCCCAT
GCAGACGGTCCCGGGTGAAACTCCTGTGTTGACTTCTGCATGGGAGAAGATAGACAAGCTTCACTCGGAGCCTTC
CTTGGATGTGAAGAGGATGGGAGAGAATCCAGGCCAAAGTCTGGTCTGATTGTGCGAGGCATGATGTCTGGGCC
CATCGCCAGCTCCCCACAGGTGAGGAAATCAGGGACAGAGAAGTTAAGCAGCTTGCCACAGGTGACACAGTTGGT
AGGTGGTGATGCAGACTGGAGCGACGGCTTACCTGCTGCATGAACCTGCTCTCTGATTCTTTTCACAGACACTA
TCTGAGACGGTCTCACCGTCAAGCAGCTCCACCCAACCCCAAGAAGAGAGCCGGAAGTCCCTGAGCTCTTTGT
CTGCACCCAACAGGACATTCTGGCTTCGAGCAACAGCTCCCCCTCCAGGACCTCCCTGGGTGAGCTTAGTGAAC
GACCGTAGAAAGGCAGAAAACCACTGCCAGCAGCCCTCCCATCTGCCAGCAAACGGCTGCCCCATGGGACAG
GGCCAGGCCGAGGGATCCCTCCGAGGACACCCACAGCAGTGGACGGCAGCACAGACACGGACAGGATGCCCTTGAA
GCTCTACTTGCCTGGTGGTAATTCAGGATGACCCAGGAGAGGCTGGAAAGAGCGTTCAAACGGCAGGGCAGCCA
GCCCCACCTGTGAGGTATTACAGTAAAGATAAACTGCAAAGCCTGTCCCTGGATATCACCTTAGATGCATTGGA
TGCCCTGGGGGAAAGTTTGCTGGTATCCCTGGGGTCTCATTCTAAAGACTGAAGCAGCTCTCTTGTCTTCCC
CAGCGTGTCTTTCTACGGCTGCATTGGGTTTTGCTGCATTTGCAGACATTTTGGATAATGTACACTTATGGAA
AAATCAGTTGCTGCCGTCTGACAAGGTGGATGGTGAGCTGGGTGCCCTGCGGCTCGAGGATGTGGAGGATGAGTT
GATAAGGGAAGAGGTCATCTGTGCCAGTCCCATCAGTGCTCAAGTTGCAGACAGCATCAAACCAATTGACCT
CTCAGTAGCAAAGGCACCTCAGATGTGGCTGGTGACGAAGAGCTGGGGAATAAGACCTCTGCTTTGGAGATGT
TAAAATTGAACATGGATTTAAGGAGCACTTGCTTCCCACTAGCCTTTGCCAATGTGTCCAGGAGTCAGATCCTG
TGCTAAGCCCCGTGATGCCTACAGAGATGAGCTCCTCAAGAAGCCTCTGCACCACAGGGGTGGTCTTGCGGAGT
CCTGGCAGCTGTCCAAGGCTGTGTCTACAGAACTCCTGTTTGAAGGAGATAGCAAAGCCGACTGTGCTCAGGG
ACTGCAGCCTTCAGATGCCCACCGGACCCGCTGCCTCGTCTGGCCCTCGCAGACATTGTGTGGCGGGCAGGGGG
CCGAGAGAGAGCCGTGTTGCACTGGCTTCGAGAACACAGCAGTTCAAGTCCAACAGGGAAATACAAAGCAGATGG
AGTCTTAGAAACACTTACGCTTACAGTTTGACCTGCTATGAGGACCTGGTGACTTTTCTTCAACAAAGCATTCA
TCAGAACTTTCCAAAGACCTGAAGGCCTGGGCACAGCCCTGGGAAATGATCAGGCCCTGGCAGCACCAGATGT
CCCTTGGGTAGGCAATGGGGCCTACCCTAGGAACAAAAGGAGGCAGTTTGAAGTGGGCCCCCTATGGCTGCATCCT
GCTCACCTTTCTGCCATCCTGTCCAGGTCTACAGAGCTGGGCCTCTGCTGTGGATTGCGGGGAGGACAGTGGGG
GCTCTGTGGCCTCGTGCGCCAGGCTGCCTGCTGCTTCTGACCTTATTAAATGCGTACCAGAGCCAGGG
TGAGGACATCATGGACAGATGTAAACCTAGCCGAGTGCTGCCGACCACTGCCTGCCTGGCCACTTCATTGTCAGA
GGCCCCAAGAAGAGTCGAGAAACAGACCTTTGAGGGAGCTCTCACAAGCCCCAAGGATGCTCAGGGTCTTGGGGT
CAGGACAGCTCTGAACCAGACCTGGGCAGCACTGAGCATGGGCTGCTCTGGTGCCCTCAGTGGAGCACAGACCTGG
CCAGGTCATTGAGGGCCCTGAGAAGGGTCCAGTGTGACCCCCAGGGCCGTGTGTGCCCCAGGGTTGTGTGTACCC
CCCTGGGTGAGGGGCCCTCAATGGACCTCACAGGGGCAAAGAAGACCCCTGAGCACAGTTGCTTGTATCATGCTCT
CTCAGTCACCCAGGAACCTTGTCAATCTGCTCCTGACTGGGAAAGCTGTGTCCAACGTTTTCAACGATGTGGTTGA
GCTGGATTCTGGGGATGGGAACATCACACTTCTCAGAGGCATTGCTGCACGCAGTGATATTGGCTTCTTATCTCT
CTTTGAGCATTACAACATGTGCCAGGTTGGCTGCTTCTGAAGACCCGAGGTTCCCATCTGGGTGGTTTGCAG
TGAGAGCCACTTCAGCATCCTCTTTAGCCTGCAGCCGGGGCTCCTGCGTGACTGGAGGACTGAGAGGCTCTTTGA
CTTGTAATACTACGATGGCCTGGCCAACCAGCAGGAGCAGATCCGGCTGACCATTGACACCACCCAAACCATCTC
TGAGGACACAGACAACGACCTTGTCCCACCCCTCGAGCTCTGCATCAGAACCAAGTCTGTGTTCCATGTCTGCGA
GAACCTTGCTGACACCAGCTGCCTGCCTGTTCCACTTCCCCCATCAATCCCCCATCATGGTGGGTCCACCTTGGC
AGTTGTTCTTAGAAAAGCTGAGTGGGCTCTATCAGGCACCTTTTTCCCCATGAAAAACACTGGGTCCATCAACGT

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FIGURE 2264B

TGAAAAGCAGTTAAGGCAGTATCAGCAATGGGCACTCACTGCCGAGGAGAAGTCTGACTTCACCAAGCCAAGCCA
GTTTGTCTCCAAATACGGCACCAGTGTCTCTTATTTGAGCAGTGAAGATGAACGCTCTGATATGGATAAATTCCA
TCAAAGTGGCTCAACCCCCAAAACCCAATAGACTCCTCTGGATCTGCTTGACACACAGAAGCCCAGTAAATAGTCT
GAAGCACTTGGATAGCATAGAAGCACTTAATTCTTCCACATCCAATGGATTTCAAAAAGAAGATGAGAACATGCA
GAAGTGCGGTGGCCTGCTGATGAAGAAGGGGACCCAGCAGCCTCTTCCCAAAGTGGCCTGCCTGCAGCC
TTCCCTGGTGTTCTTTGATTACCTGGGTCCTTGCCCTCTGGCTCCCCATGTCCATCTGTCAAATCCTACCCATC
CCACAAGGCCAGCTCCAAGGCCCTCCTCTAAGAAGCCCTCCTGGATTACCCAGCCGACAGTTCAAGTCCTCCCC
TCTGAGTGCTCACAGGACTCAATCACCTCCTCTTTCACAAGCCTAG

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FIGURE 2265

GTCACTCGTATAAAAAACCTATGCTTTGAAGGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAACTTCGGCGGGGTCTTCCGGGTTTTGTGTGCAATCTGCGGCGGCGACCCGGCGCCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCGTCTGTTACGCGGCGATTTCATCATGCTCCGAGCCG
GCGGCGCGCGCCGCTTCCGTCGCCACCCTCTCTGGACAGCCAGGGCCGAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCCGCCCCGGCTCTTAGCCCGACCCTCGCTCCTCC
TCCGCGCGTCCCTCAGCGCGGCCCTCTGCGCCCCGATCTCCTTGCCCCCGCCGCTCCCGGAGCAGC**ATG**GACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCCCAGCAGGGAGATCTTGTGCGAAAACCTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTCAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA
AAAATGGAGAATGTTTTCTGCTGACCATCTATTTAAAGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGT
CTGTGCAAAAGAAATCAGAAATGGAAAGTGTGTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGCGGATC
TTTTTGTGAACTATAATGTAAATCTCCATTACTGGAATGATCTATCCCTCCAGTGTCTTTAACTTAATGT
TCAAGACTTTTATTGGCCCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCTTTTGCTGCTGCCAGATTGGAAATTTCTTTAGAA
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTCACCTTTATTTGTATTACAGCAAAAGCCCAGG
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTATTGGCCGCATCTACCTCTACCTCACGAAGGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCATTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCCTACGGTTGGATTG
AGATTGTTGGATGTGCTGATCGTTTCTGTTATGACCTCTCCTGTGATGCACGAGCCACCAAAGTCCCACTTGTAG
CTGAGAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTCAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCCGCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCTCTCCACTGAGCCAAAACCAGGAGTTTATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTTGACTTTGACACAGTGAACAAGACCCCC
ACACTGCAACTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAAGAGACAATCGAGGAAT**GAGG**ACAATTTTGACAACCTTTTGACCACTTGCGCTAATAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCCAGGGACCGTATTTTATCTTCAGTGGC
TGCCTGATTTTACCCCCACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 2266

MDGAGAEVLAFLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQHF IQEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVK
DVKNGECFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQLADLFVNYNVKSPITGNDLSPPVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPKSGAI
GKAYKKDAKLVMEYLAICDECYITEMEMLLNEKGEFTIETEGKTFQLTKDMINVKRFQKTLVVEEVVNPVIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTIDFDTVNKTPHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKETIEE

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FIGURE 2267

ATGACAGATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGAAGCCATCTCCAAGACAGCG
GTAGCGCCCATCGAGCAGGTCAAGCTGCTGCTGCAGGCTTTTAACTTCGCCTTCAAAGATAAATAACAAGCAGATC
TTCCTGGGTGGGAATCTGGCATCAGGAGGTGCCGCTGGGGCCACATACTTGTGTTTTGTGTACCCCTCTTGATTTT
GCCCGTACCTGTCTAGCAGCTAATGTGGGTAAAGCTGAAGCTGAAAGGGAATTCCGAGGCCTCTGTGACTGCCTG
GTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTAACGTGTCTATGCAGGGTATTATCCGA
GCTGCCTACTTCGGTATCTATGACACCGCAAAGGGAATGCTTCCGGATCCCAAGGACACTCACATCGTCATCAGC
TGGATGACCACACAGACTGTCACTGCCTTTTCTGGGTTGACTTCCTATTCAATTTGACATCTCAGGGCGCAAAGTA
ACTGACATCATGTACACAGGCACACTTGACTGCTGGAGGAAGATTGCTGGTGATGAAGGAGGCAAAGCTTTTTTC
AAGGGTTCATGGTCCAGTGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGTTTGATGAAATCAAGAAG
TACAGGTAA

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FIGURE 2268

MTDAAVSFAKDFLAGGVAEAI SKTAVAPIEQVKLLLOAFNFAFKDKYKQIFLGGNLASGGAAGATYLCFVYPLDF
ARTCLAANVGKAEAEREFRGLCDCLVKIYKSDGIKGLYQG FNVSMQGIIRAAYFGIYDTAKGMLPDPKDTHIVIS
WMTTQTVTAFSGLTSYSFDISGRKVTDIMYTGTLD CWRKIAGDEGGKAFFKGSWSSVLRGMGGA FVLVLFDEIKK
YR

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FIGURE 2269

TCGGCGGGACGGCTCCCGGCTGCAGTCTGCCCGCCCGCCCGCGCGGGGGCCGAGTCGCGAAGCGCGCCTGCGAC
CCGGCGTCCGGGCGCGCTGGAGAGGACGCGAGGAGCCATGAGGCGCCAGCCTGCGAAGGTGGCGGCGCTGCTGCT
CGGGCTGCTCTTGGAGTGCACAGAAGCCAAAAAGCATTGCTGGTATTTTGAAGGACTCTATCCAACCTATTATAT
ATGCCGCTCCTACGAGGACTGCTGTGGCTCCAGGTGCTGTGTGCGGGCCCTCTCCATACAGAGGCTGTGGTACTT
CTGGTTCTTCTGATGATGGGCGTGCTTTTCTGCTGCGGAGCCGGCTTCTTCATCCGGAGGCGCATGTACCCCC
GCCGCTGATCGAGGAGCCAGCCTTCAATGTGTCTACACCAGGCAGCCCCCAAATCCCGGCCAGGAGCCAGCA
GCCGGGGCCGCCCTATTACACCGACCCAGGAGACCGGGGATGAACCCTGTCGGGAATTCCATGGCAATGGCTTT
CCAGGTCCCACTCACTACCCAGGGAGTGTGGCCTGCCCGCCCCCTCCAGCCTACTGCAACACGCCTCCGCC
CCCGTACGAACAGGTAGTGAAGGCCAAGTAGTGGGGTGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCC
CTGGCCTTTCTGTCTTCGTTGATGTTCACTTCCAGGAACGGTCTCGTGGGCTGCTAAGGGCAGTTCCTCTGATAT
CCTCACAGCAAGCACAGCTCTCTTTCAGGCTTTCATGGAGTACAATATATGAACTCACACTTTGTCTCCTCTGT
TGCTTCTGTTTCTGACGCAGTCTGTGCTCTCACATGGTAGTGTGGTGACAGTCCCCGAGGGCTGACGTCCTTACG
GTGGCGTGACCAGATCTACAGGAGAGAGACTGAGAGGAAGAAGGCAGTGCTGGAGGTGCAGGTGGCATGTAGAGG
GGCCAGGCCGAGCATCCCAGGCAAGCATCCTTCTGCCCGGTATTAATAGGAAGCCCCATGCCGGGCGGCTCAGC
CGATGAAGCAGCAGCCGACTGAGCTGAGCCCAGCAGGTATCTGCTCCAGCCTGTCTCTCGTCAGCCTTCTCT
TCCAGAAGCTGTTGGAGAGACATTCAGGAGAGAGCAAGCCCCCTGTGATGTTTCTGTCTCTGTTTCATATCCTAAA
GATAGACTTCTCCTGCACCGCCAGGGAAGGTAGCACGTGCAGCTCTCACCGCAGGATGGGGCCTAGAATCAGGC
TTGCCTTGGAGGCTGACAGTGATCTGACATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCACTTCTGTC
CCCAAATGAGACATTGCATTTTGTGAGCTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTTGGTGT
GTTTATGGAAGTGCATGTAGAGCGTCTGCCCCCTTTGAAATCAGACTGGGTGTGTGTCTTCCCTGGACATCACTGC
CTCTCCAGGGCATTCTCAGGCCCGGGGGTCTCCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGCTTT
CAAAACGGGGCACATCTGGCTGGGAAGTCACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCTCT
GAGGTTGTGTTGGGTCTAAGCGGGTGTGTGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAG
TACTGACTCAACTGCACTGACCATGTTGTCTATAATTAGAATAAAGAAGAAGTGGTCGGAAATGCACATTCCTGGA
TAGGAATCACAGCTCACCCAGGATCTCACAGGTAGTCTCCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCG
CCGCATAGTTATAGTGTGATGTGTGAACGCTGACCTGTCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCG
CCTAGATTACTAGATGTGCTGTATCACGGGGAATGAGGTGGGGTGCTTATTTTTTAATGAACTAATCAGAGCCT
CTTGAGAAATTGTTACTCATTGAACTGGAGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTTGGTGTCC
ATGCTTTTCACTCTGAGGACATTTAATCGGAGAACCCTCTGGGGAATTTTGTGGGAGACACTTGGGAACAAAACA
GACACCCTGGGAATGCAGTTGCAAGCACAGATGCTGCCACAGTGTCTCTGACCACCCTGGTGTGACTGCTGACT
GCCAGCGTGGTACCTCCCATGCTGCAGGCCTCCATCTAAATGAGACAACAAAGCACAAATGTTCACTGTTTACAAC
CAAGACAACCTGCGTGGGTCCAAACACTCCTCTTCTCCAGGTCAATTTGTTTTGCATTTTAAATGTCTTTATTTTT
TGTAATGAAAAAGCACACTAAGCTGCCCCCTGGAATCGGGTGACGCTGAATAGGCACCCAAAAGTCCGTGACTAAA
TTTCGTTTGTCTTTTGTAGCAAATTATGTTAAGAGACAGTGATGGCTAGGGCTCAACAATTTTGTATTCCCAT
GTTTGTGTGAGACAGAGTTTGTCTTCCCTTGAACCTGGTTAGAATTGTGCTACTGTGAACGCTGATCCTGCATAT
GGAAGTCCCACTTCGGTGACATTTCTGGCCATTCTTGTCTTCCATTGTGTGGATGGTGGGTGTGCCCACTTCT
GGAGTGAGACAGCTCCTGGTGTGTAGAATTCCCGGAGCGTCCGTGGTTCAGAGTAACTTGAAGCAGATCTGTGC
ATGCTTTTCTCTGCAACAATTGGCTCGTTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTTCTATGTGTG
CAAAATAAAAAATAAATTTGGGCA

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FIGURE 2270

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRALSIQRLWYFWFLLMMGVLFCC
GAGFFIRRRMYPPPLIEEPAFNVSYTRQPPNPGPGAQQPGPPYYTDPGGPGMNPVGNSMAMAFQVPPNSPQGSVA
CPPPPAYCNTPPPPYEQVVKAK

2470/6881
FIGURE 2271

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAGTGGCAGCTGAGGAGA
CCGGCGCTCGCCATGGCCGACGAAAAGCCCAACCAAGGAGTCAAGTCGGAGAACAACGATCATACTAATTTGAAG
GTGGCGGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCC
TATTGTAAGCAACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTTCGACGGGCAACCAATCAAGGAAACAGAC
ACACCTGCACAGTTGGAAATGGAGAATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGGA
AAAGGGAACCTGCTTCTTTACTCCAGAACTCTGTTTCCTTAAAGACCAAGATTACATTCTCAATTAGTCTTTTCATT
TCCCCCTTCCCCATTCTTTATTGTACATAACTGGTATATGTGCACAAGCATATTGCATTTTTTTTT

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FIGURE 2272

MADEKPNQGVKSENNDHTNLKVAGQDGSVVQFKIKRHTPLSKLMKAYCKQQGLSMRQIRFRFDGQPIKETDTPAQ
LEMENEDTIDVFQQQTGGVY

2472/6881
FIGURE 2273

GGAGGAAAATTCTTCCAGCGATGGTCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTT
TTGATGTTGACAGCACGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGG
TGTCAGAAATGACACGGCGAGCCATGGGCGGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCA
TCCAGCCCTCCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCCCACACCTGACCCCCGGCATAAGGGAGC
TGGTAAGTCGCCTACAGGAGCGAAATGTTTCAGGTTTTCTTAATATCTGGTGGCTTTAGGAGTATTGTAGAGCATG
TTGCTTCAAAGCTCAATATCCCAGCAACCAATGTATTTGCCAATAGGCTGAAATTCTACTTTAACGGTGAATATG
CAGGTTTTGATGAGACGCAGCCACAGCTGAATCTGGTGGAAAAGGAAAAGTGATTAAACTTTTAAAGGAAAAAT
TTCATTTTAAGAAAAATAATCATGATTGGAGATGGTGCCACAGATATGGAAGCCTGTCTCCTGCTGATGCTTTCA
TTGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAACGCCAAATGGTATATCACTGATTTTGTAGAGC
TGCTGGGAGAACTGGAAGAATAACATCCATTGTCGTACAGCTCCAAACAACCTTCAGATGAATTTTACAAGTTAT
ACAGATTGATACTGTTTGCTTACAGTTGCCTATTACAACCTTGCTATAGAAAGTTGGTACAAATGATCTGTACTTT
AAACTACAGTTAGGAATCCTAGAAGATTGCTTTTTTTTTTTTTTTTAACTGTAGTTCAGTATTATATGATGACTA
TTGATTTCTTGAGAGGTTTTTTTTTTTTTTTGAGACAGAATCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCG
CGGTCTCGGCTCACTGCAAGCTCTGCCTCCCAGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA
CTACAGGCACCCGCCACCACATCCGGCTAATTTTTTTGTATTTTATAGTAGAGACGGGGTTTGACCGTGTTAGCCAG
GATGGTCTTGATCTCCTGACCTTGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCTTGGGCCA
CCGCGCCCAGCCAATGTCCTAGAGAGTTTTGTGATCTGAATTCCTTATGTATATTGTAGCTATATTTCATACAA
AGTGCTTTAAGTGTGGAGAGTCAATTAAACACCTTTACTCTTAGAAATACGGATTCGGCAGCCTTCAGTGAATAT
TGGTTTCTCTTGGTATGTCAATAAAAGTTTATCCGTATGTCAGAACGGATTGTGG

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FIGURE 2274

CGAGAAGACCCGGATAGTTCCTCCCGGCCACGCCGCGCCGGCTCTGGGCACTCAGCATCGTTTCCTTTTCCTCCG
CTGGAGCAGCTATGGCGGCGGTGAAGACCCTGAACCCCAAGGCCGAGGTGGCCCGAGCGCAGGCGGCGCTGGCGG
TCAACATCAGCGCAGCGCGGGGTCTGCAGGACGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGC
TCGTTTCTGGCGCTGGAGACATCAAACCTTACTAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTC AACACC
CAACAGCTTCCTTAATAGCAAAGGTAGCAACAGCCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCC
TAATCATTGGAGAGCTGCTGAAACAGGCGGATCTCTACATTTCTGAAGGCCTTCATCCTAGAATAATCACTGAAG
GATTTGAAGCTGCAAAGGAAAAGGCCCTTCAGTTTTTGGAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAA
CACTTATAGATGTGGCCAGAACATCTCTTCGTACTAAAGTTCATGCTGAACTTGCAAGATGTCTTAACAGAGGCTG
TAGTGGACTCCATTTTGGCCATTAAAAAGCAAGATGAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGA
AACATAAATCTGAAACTGATACAAGCTTAATCAGAGGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGA
AGAAAAGGTGGAGGATGCATACATCCTCACTTGTAACGTGTCATTAGAGTATGAGAAAACAGAAGTGAATTCTG
GCTTTTTTTACAAGAGTGCAGAAGAGAGAGAAAACTCGTGAAAGCTGAAAGAAAATTCATTGAAGATAGGGTTA
AAAAAATAATAGAACTGAAAAGGAAAGTCTGTGGCGATTGAGATAAAGGATTTGTTGTTATTAATCAAAAGGGAA
TTGACCCCTTTTCCTTAGATGCTCTTTCAAAGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAATATGG
AGAGGCTGACTCTTGCTTGTGGTGGGTAGCCCTGAATCTTTTGACGACCTAAGTCCTGACTGCTTGGGACATG
CAGGACTTGATATGAGTATACATTGGGAGAAGAGAAGTTTACCTTTATTGAGAAATGTAACAACCCCTCGTTCTG
TCACATTATTGATCAAAGGACCAATAAGCACACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGG
CTGTCAAAAATGCTATTGATGATGGCTGTGTGGTTCCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCC
TGATTAAACATAAGCCCAGTGTAAGGGCAGGGCACAGCTTGAGTCCAAGCATTGTGCTGATGCATTGCTCATTA
TTCCCAAGGTTCTTGCTCAGAACTCTGGTTTTGACCTTCAGGAAACATTAGTTAAAATTCAAGCAGAACATTGAG
AATCAGGTCAGCTTGTTGGTGTGGACCTGAACACAGGTGAGCCAATGGTGGCAGCAGAAGTAGGCGTATGGGATA
ACTATTGTGTAAAGAAACAGCTTCTTCACTCCTGCACTGTGATTGCCACCAACATTCTCTTGGTTGATGAGATCA
TGCGAGCTGGAATGTCTTCTCTGAAAGGTTGAATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTG
ATCCTGAGGATTACAGCTGTGGAATTTTTGTCCAAGCTTCAAATAATTTTGAAAGAAATTTTCCCATATGAAAAA
AGGAGAGAACACTGGCATCTGTTGAAATTTGGAAGTTCTGAAATTATAGTATTTTTAAAAATTGCACTGAAGTGT
ATACACATAAAGCAGGTCTTTTATCCAGTGAACAGGATGTTTTGCTTTAGCAGCAGTGACATAAAATTCATGTT
AGATAAGCATATGTTACTTACCTTGTTATTAAATATTTCTTGAAAAGCAGGCCACGAAGG

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FIGURE 2275

MAAVKTLNPKAEVARAQAALAVNISAAAGLQDVLRTNLGPKGTMKMLVSGAGDIKLTGDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAKEKALQFLEEVKVSREMDRETLID
VARTSLRTKVHAEADVLTEAVVDSILAIAKKQDEPIDLFMIEIMEMKHKSETDTSILIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIELKRKVCGDSDKGFVVINQKGIDPF
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLHSCTVIATNILLVDEIMRAG
MSSLKG

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FIGURE 2276

CAGACACACTGTGACGGCTGCCTGAAGCTAGTGAGTCGCGGCGCCGCGCACTGGTGGTTGGGTCAGTGCCGCGCG
CCGATCGGTCGTTACCGCGAGGCGCTGGTGGCCTTCAGGCTGGACGGCGCGGGTCAGCCCTGGTTCGCCGGCTTC
TGGGTCTTTGAACAGCCGCGATGTCGATCTTCACCCCCACCAACCAGATCCGCCTAACCAATGTGGCCGTGGTAC
GGATGAAGCGTGCCGGGAAGCGCTTCGAAATCGCCTGCTACAAAAACAAGGTCGTCGGCTGGCGGAGCGGCGTGG
AAAAAGACCTCGATGAAGTTCTGCAGACCCACTCAGTGTTTGTAAATGTTTCTAAAGGTCAGGTTGCCAAAAAGG
AAGATCTCATCAGTGCGTTTGGAACAGATGACCAAACCTGAAATCTGTAAGCAGATTTTGACTAAAGGAGAAGTTC
AAGTATCAGATAAAAGAAAGACACACACAACCTGGAGCAGATGTTTAGGGACATTGCAACTATTGTGGCAGACAAAT
GTGTGAATCCTGAAACAAAGAGACCATAACCGTGATCCTTATTGAGAGAGCCATGAAGGACATCCACTATTTCGG
TGAAAACCAACAAGAGTACAAAACAGCAGGCTTTGGAAGTGATAAAGCAGTTAAAAGAGAAAATGAAGATAGAAC
GTGCTCACATGAGGCTTCGGTTCATCCTTCCAGTCAATGAAGGCAAGAAGCTGAAAGAAAAGCTCAAGCCACTGA
TCAAGGTCATAGAAAGTGAAGATTATGGCCAACAGTTAGAAATCGTATGTCTGATTGACCCGGGCTGCTTCCGAG
AAATTGATGAGCTAATAAAAAAGGAAACTAAAGGCAAAGGTTCTTTGGAAGTACTCAATCTGAAAGATGTAGAAG
AAGGAGATGAGAAATTTGAATTGACACCCATCAATCTCTTCACCTCTAAAACAC

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FIGURE 2277

MSIFTPTNQIRLTNVAVVRMKRAGKRFEIACYKNKVVGWRSGVEKDLDEVLQTHSVFVNVSKGQVAKKEDLISAF
GTDDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCVNPETKRPTYVILIERAMKDIHYSVKTNKST
KQQALEVIKQLKEKMKIERAHMRLRFILPVNEGKKLKEKLKPLIKVIESEDYGQOLEIVCLIDPGCFREIDELIK
KETKGKGSLEVLNLKDVEEGDEKFE

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FIGURE 2278

GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGGCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCAGGGC
ACCTTCAAACCTGAACCTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT
GTTCTCTTCCCGGGGTACACCCATTTCAGAGGGGCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCTGCCCTGGGGAGGTGG
GGCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTA
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA
GGACAAGGAAGCTGTGTTTGAAGTGTGAGACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC
GCTGCAGATTACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCATTACCT
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCCCAGAGGCCTCCGGGAAAGCTGTGTTTCATGGCCGAGACCAAGGG
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGT
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGAT
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCCTCCCACACCTGCCCCCTAATAAAGTGGGCGC
GAG

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FIGURE 2279

MASESGKLWGGRFVGAVDPIMEKFNASIAYDRHLWEVDVQGSKAYSRGLEKAGLLTKAEMDQILHGLDKVAEEWA
QGTfKLNSNDEDIHTANERRLKELIGATAGKLHTGRSRNDQVVTDLRLWMRQTCSTLSGLLWELIRTMVDRAEAE
RDVLFPGYTHLQRAQPIRWSHWILRAIAGNPLGVDRELLRAELNFGAITLNSMDATSERDFVAEFLFWASLCMTH
LSRMAEDLILYCTKEFSFVQLSDAYSTGSSLMPQKKNPDSLELIRSKAGRVFGRCAGLLMTLKGLPSTYNKDLQE
DKEAVFEVSDTMSAVLQVATGVISTLQIHQENMGQALSPDMLATDLAYYLVVRKGMPFRQAHEASGKAVFMAETKG
VALNQLSLQELQTISPLFSGDVICVWDYGHVSVEQYGALGGTARSSVDWQIRQVRALLQAQQA

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FIGURE 2280

CTCTTTCCCATCTTGCAAGATGGCAGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCCGAAGCCAA
GAAGGCTGATGCTGGTGGCAAGGTGCAAGAGGGTAATCTTAAAGTTAAAAAGCCCAAGAAGGGGAAGCCCTATTG
CAGCCACAACCCTGTCCTTGTCAGAGGAACTGGCAGGTATTCCCGATCTGCCATGTATTCTAGAAAGGCCATGTA
TAAGAGGAAGTACTCAGCCGCTAAATCAAAGATTGAAAAGAAAAAGGAGAAGGTTCTTGCAACTGTTACAAAACC
AGTTGGTGGTGACAAGAATGGTGGTACCCAGGTGGTTAACTTCACAAAATGCCTAGATACTATCCTACCGAAGA
TGTACCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCTTCAGTCAGCATGTGAGAAAAGTGAAGCCAGCATTAC
CCCTGGGACCATTCTGATCATCCTCACTGGATGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGCTAG
TGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATTGAGTTCCTCTACGAGGAACACACCAGAAATTTGTCAT
TGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAAGCA
GCAGCTGCGGAAGCCCAGACACCAGGAAGGCAACATCTTCGACACAGAAAAAGAGAAATATGAGATTACAGAGCA
GCGCAAGATTGATCAGAAAGCTGTGGACTCACAATTTTACCAAAAGTCAAAGCTATTTCTCAGCTCCAGGGCTA
CCTGCGATCTGTGTTTGGCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGAACCTAA
TTAAATAGCTAAGTAC

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FIGURE 2281A

CGCTTCCTGCGCCTCTTCAGGTCACCGCTTGCTCTAGTTCCCAGGCTTTGGCCTCTAGTGGATGAGAATCACCGA
GTCTGCGGGGCTGGACGCTGACCGCCCGGGCCAGCACCTAGGCGGGCGGGAGCTGTGCGGGCCAGGGTTTCGCGCG
GGCCGGGTAGAGGCTCGAGCCGGGACCCCGAGCGTGAACCCCGGAGCCAGCGGCGCTGGGGCCAGAGGGGCCAG
GCGGGAGGTGGTGGCGGAGGCGAAGGGGCGACGGGACCTGGGCCTGGCCCGTGTGTCTCTCGGCGGCCTGGCGC
CGGCCGTGCTGTACGGTGAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCTGGATTTGCCCCG
TAGGCCCCGGCCCGGGCCCCCTCGGGAGCAGAACAGCCTTGGTGAGGTGGACGGGAGGGGACTTCGCGAGCAGACGC
GCGCGCCAGCGACAGCAGCCCCGCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCAGAGCCCCAGGAGGGGGC
CAGTGTCAATCAAAGATGTGGCTGTGGATTTACCCAGGAGGAGTGGTGGCAACTGGACCCTGATGAGAAGATAA
CATACGGGGATGTGATGTTGGAGAACTACAGCCATCTAGTTTCCCTGGCTTATGAGGTGGCAACATCTTGTACTT
CGGAGATCTGAAGCCGAGCAACTTGCCCAAGTCCTTCTTCTTTTCCCATTAACAAGATATGATATCACCAAGCCA
AACGTCATCATTAAAGTTGGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCA
GCCCTTCACATCCTCAGCCGAAGATCTCACTTCCCTCCAGAGGCCCTTGCTGACTGACCCCTCAGGGATTGTGGG
ACTTTACCAAATCGGTTTGTAAATAACACCTAGAAGACGCTATCCGATCCATCAGGCCAGTATTCCTGTCTGGGG
GTACTTTCCACCGTGTGTGCTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGT
AGCCAGTGACTGTGAGGATCGCCCCCTCTGACAGAAGATTTTCGCGTCTGCGATACCAGAGCAGATAATCAGC
TCAACACTGTCTCACCATCAAGTAACGCCCCAGACCCATGTGCAAAGGAGACAGTACTGAGTGCCTCAAAGAG
AAGGAGAAGAAAAGGACAGTGGAGGAAGAAGACCAATATTCCTTGATGGCCAGGAAAATAAAGAAGGCGCCAT
GATAGCAGTGGCAGTGGACATTCAGCATTTGAGCCCTGGTGGCCAATGGAGTCCCCGCTTCTTTTGTGCCTAAG
CCTGGGTCTCTGAAGAGAGGCCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCC
ATGAGCTCCTTGACAGGCGCTTACGCAAGTGGCATCCCTAGCTCCAGCCGAATGCCATTACCAGTTCTTACAGC
TCCACTCGAGGCATCTCAGCTCTGGAAGAGAAATGGCCCCAGTTTCATCACCCCTTCTCTAGCCAGCCTCCTCC
CGCTCCAGACACCGGAGAGGCCAGCAAAGAAAATAAGAGAAGAGGAGCTGTGTTCATCATTCCAGTTCTTCAACT
CCATTGGCAGCAGACAGGGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACCTCGAAT
TCTCAGTCTACACCTGGCAGCTCTGGGCAGCGTAAGCGGAAAGTTAGCTGCTGCCTTCTCGGCGAGGGGAACAG
CTGACCTTGCCCTCCACCTCCCCAGCTTGGCTATTGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCA
TTACAGTGGTTCAACCAGGCCTTGGAGGACAAGAGCGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTATC
ACTCAGCCTTCATTTACCTTTACCCTGCCTGCTGCTGCACCTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGC
ACCAACCCACTGTTAGAGAGCTTGAAGAAGATGCAGACTCCCCGAGCCTGCCACCTGCCAGAACTCTGCTGGA
GCAGCAACCACTGAGGCCCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCAGAGTCAGGG
CCGCCAGGGCTGCTCCCCAGCCCCCTCTTTGACTCCAAACCCCGACCACTTGTGTTGGGCTGATCCCTGCTCCA
TCCATGGTACCAGCCACTGACACCAAGGCACCTCCAACCCCTTCAGGCAGAGACGGCTACCAACCCCAAGCCACA
TCTGCCCCGTCCCCCGCCCCAAGCAAAGCTTCTGTTTGGAAACACAGAACCTCACCTTCCAGCCCTGCCGCC
CCTGCTGCATCTTCAGCACCTCCCATGTTCAAGCCATTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCC
ACACCGCTGGCCCTTCAGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAGCACCACAGCC
CCGACCTTCCAGCCTGTCTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAG
ACAATACTCCCGCCACTGCTCCCAACCAACTGCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTG
GCTCCCATCACCTCTGCCAGTCCATCCACAGACTCTGCTTGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTG
AGCAGCAGCAGTGTGAGTACCACGACCAGCACCAGCCACTGCCGCTCACAGCCTTTCTCTCGGGGCGCCCCAG
GCCTCTGCTGCCAGCTTACCCCGGCCATGGGCTCCATATTCAGTTTGGCAAACCTCCTGCCTTGCCACAACC
ACCACAGTCACCACTTCAGCCAGTCCCTGCACACTGCCGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTT
AGTGGTTTTTGGCAGCACCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTGACGTTAGTAACAG
AGCACCCACAGTTCAACATTCCCTTTGGCTCAAGCGCCAAGTCCCGCTCCCATCATATCCGGGAGCCAACCC
CAGCCCGCATTTGGGGCGCTGAGGGGCGAGCCACCGGGGGCGCCAAGCCGGCCCTTGCCCCAGCTTTGGCAGC
TCTTTCACTTTTGGAACTCTGCAGCCCCGGCTGCTGCACCCACACCTGCACCTCCGTCCATGATCAAGGTGCTG
CCTGCGTACGTGCCTACGCCCATCCATCCTATCTTTGGCGGTGCCACGCACTCGGCGTTTGGGTGAAAGCCAG
GCTTCGGCCTTCGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCGGTGCAGCC
ACCAGCTCCGGCTTTGGAGCCACCACCCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAACA
CCATCACCCCTTACGTTTGGGGGTTTGGCGAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAATGTGGCCACCCCA

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FIGURE 2281B

GGCTCCAGCACCACCACCGGAGCTTTCAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTC
GCAGGGGGCTTAGGTGAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCCTTCAACGTGAGCAGCACA
ACTGAGAGCAAACCTGTGTTTGGAGGCACCGCCACCCCCACCTTTGGTCTGAACACCCCTGCGCCTGGAGTGGGC
ACATCAGGCAGCAGCCTCTCCTTTGGGGCATCCTCAGCACCCGCCCAAGGCTTTGTTGGTGTTGCACCTTTCGGC
AACACTTTTGGCTCACCAGCAAGAACACAGCCCCGAGGAAGGGACCCAATAACCTTTCAAAACGAAACTGCTGCCT
GCGGTGAGGGCCAGGGTCTTCCACGGAGAGGACAGGCATCTTCCTTTCCACCAGGAAGGAGTGAGCCCGGAGC
CTCTGCTATGTGCAAGGCGGTGTGCAAGCACC GGCTGCAGCTTTTTGCTCTCTTCTTTCTCTTTGGGGCTGGGCT
GGGTGTGCGTTCTGGTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAATGTAGATGTTAGATGTGCCAGTA
CCATCCTGCGCCTCCCAAGCATGCCCCACTCACTCACGTGCGCATCTCGACCCGTTCAATTACAGCAACGAAGA
AGCCACCGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGT
GGGGCCGGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAAGAGAGCAGTTCACCC
CATCCCCCTCCACGACCCTGGCGCAGCCCTGTACCTGAAGGCGCCCGGGTTCTGCTGCAGCGCATCTTGTAC
CATGTCTTCATTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGC
GTGGCACAGGGCTCGCTGCTGGAACCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGCTC
CTCCAGCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCCTG
AAATCCTCGCTCCTGAAATCCTCGCTTCACAGAGGAGAACTTTTGCTCCAGGGTCCCAAGCCCATTAAGTGTCA
GAACTAAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCTGAGTCCCTCAGCCACGCCTTCTCAC
CATCTCACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGACCTCACGATAGCGGGATCTAAGGGGGA
GACCGCCAGGAAGTCTCCTCAGCCAGCTCACAGCAGGAGACGCCAGCCAGGCCAGCAGCGTGGCCATGGATGC
CAGCCGCTGGCATCCAGGTCAAAGGCAAAGATCTTCCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGC
ATGGAGCAGCTAAGGGCTGTACAGCTGACACAGACAACCAGAACATGCAGGTTAAGCCAGGACACACAATATT
GAAACAGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGCTAAGGGATC
CACATCTCACACCTGCAGTGGGGAAAAGCTTAGCTTGGGGCAAATACCGTGAACTACTTTGGTGCAGCAGGAAAGA
GTTAAGCGAAAGTCATCCTTTCAGCCTTCATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCCTCCTC
CTCCTGTGGCACTCACCCTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTTATTGCCTGGGGTGGCACAGG
CATCCATGACATGGGAGCCTGGCGGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAACACAG
GGGCCGGGTAAACAGAGACCCCAAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTTGCC
TACCCTGTCTGCAGAATGAGGTGTCCGGCCCGGTACAGTGGGTGTTTATGCAGATCTGTCTGGGCGGGAAACAC
CAGCAGCTCCGGCATCAAGGGGTCCAGGAGAAAATGCTTCCCTTGAGGGCTCGTAAGTCATCGAGGCTGCCAGG
GAAGAACCATTTCATTTCATCTTCTGAAATTTCTCCCTGCCAGGCCCTATTTCACGGTCCATTTCATGCAACAAA
TGTTACCACAGCTATGGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCA
AGCCAGACTTATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAA
GCCCCACTGGCATCTCTGTAAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCA
CAATTTAATAAATGTTAGCTATTCCTGTTGAAGCATAACCTTGAGAAAGGTTACTTTACAGGGGGGTGAGGAGT
GGGGAAGTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATT
CACTATAACTCAGTAAAGCAGTCCCGCCACTCTCCGACCCATGCAGAAATAGGCCTAGGGAGTCACATGTCTCA
GTTCAGAAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGT
CCAAGCAACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTT
CTCAGAGCCACCAAAGGACAAAATAAGACAGGTGTGAGCCAGTGGAGGAGGCACGGGGCAGAGACCAGCCACTG
TTGCTGGCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAATGGAG
CCAAGAAAGGACTTAGCATGGCCGGGCGCGGTGGTTTCATGCCTGTAATCCCAGCATTTTGGGAGGCCAAGGTGGG
CAGATCACCTGAGGTGAGGAGTTTGGAGCCAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAA
ATTAGCCAGGCATGGTGTGCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTG
TGTAAGAAAGGGAAGACATAAGAAATTCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAAT
TTGTGACTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTG
TGCAGGACATGCCTTGTTAATAAAACGTTTACAAGC

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FIGURE 2282

GCCAGGGAGCACTGGAGGCCACCCAGTCATGGGGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAA
GCGCTTCGTACCCAGCCAGCACTATGTACATGTTTCCTGGTGAAATGGCAGGACCTGTCGGAGAAGGTGGTCTACC
GGCGCTTCACCGAGATCTACGAGTTCATAAAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATC
CAGAGAACAGGATCATCCCCACCTCCCAGCTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCACCAGG
GCACACTTACCGAGTACTGCGGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTTGACT
TCTTCAAGGTGCGCCCTGATGACCTCAAGCTCCCCACGGACAACCAGACAAAAAAGCCAGAGACATACTTGATGC
CCAAAGATGGCAAGAGTACCGCGACAGACATCACGGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACT
ACGAGAAGACCTCGGGCTCCGAGATGGCTCTGTCCACGGGGGACGTGGTGGAGGTCGTGGAGAAGAGCGAGAGCG
GTTGGTGGTTCTGTCAGATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCCTGGACAGTCCTG
ACGAGACGGAAGACCCTGAGCCCAACTATGCAGGTGAGCCATACGTCGCCATCAAGGCCTACACTGCTGTGGAGG
GGGACGAGGTGTCCCTGCTCGAGGTTGAAGCTGTTGAGGTAATTCACAAGCTCCTGGACGGCTGGTGGGTTCATCA
GGAAAGACGACGTACAGGCTACTTCCCGTCCATGTACCTGCAAAAGTCAGGGCAAGACGTGTCCAGGCCCAAC
GCCAGATCAAGCGGGGGGCGCCGCCCGCAGGTCGTCCATCCGCAACGTGCACAGCATCCACCAGCGGTTCGCGGA
AGCGCCTCAGCCAGGACGCCATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCGCCAGGCGCGGCCGG
GACCGCAGAGCCCCGGGAGCCCGCTCGAGGAGGAGCGGCAGACGCAGCGCTCTAAACCGCAGCCGGCGGTGCCCC
CGCGGCCGAGCGCCGACCTCATCCTGAACCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCTTGAG
GCTGGAGCGCAGTCCCCAGCTAGCGTCTCGGCCCTTGCCGCCCGTGCCTGTATATACGTGTTCTATAGAGCCTG
GCGTCTGGACGCCGAGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAAATGTTGCTTGGAG
TGGACCGAGGCTCTGCAGGAATGCAGGGAGGGCCGGGCTCCGCCCCAGGGTTATTTCTAAGTTGA

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FIGURE 2283

MYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEKEMFPIEAGAINPENRIIPHLPAKWFQDQRAAENHQGTLTEYCG
TLMSLP TKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKDGKSTATDITGP IILQTYRAIANYEKTSGSE
MALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLDSPDETEDPEPNYAGEPYVAIKAYTAVEGDEVSLLE
GEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQKSGQDVSQAQRQIKRGAPPRSSIRNVHSIHQSRKRLSQDAY
RRNSVRFLQQRRRQARPGPQSPGSPLEERQTQRSKPQPAVPPRPSADLILNRCSESTKRKLASAV

2484/6881
FIGURE 2284

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGCAAGTCCC GCGGGTCGCGCCCAGCCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTTCATCCACAGCGGTCACTTCATGGTGTCTGCGCCGCACAGC
GACTCGCTGCCCCGGCGGCGCGACCAGGAGGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTTC
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCCTGAGGCTGATGCGCACCGGAAG
CCGAGGGCCGTGGTCTGGAGGGGAACACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC
AGGTGGCCGCGCGCGGAGCAATGGTGCAAACAGCTCTTCTCCAGTGTGGTCCCCGTGCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTCACCATG
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCCGCCTGAGGATGCCTACGTCGGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCCTCCCA
CAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG
ACCCTGGGCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGACTCCAGCGCCTTCCTGAGTTCTGATTTCTCCTTCCTGAAGACCCCAAGCCC
CGGCTCCACCCCCCTCTGTACCCCCACCTCTGCTGCATTACCCTCCCCCTGCCAAGGTGCCAGGCCTGGAGCCC
TGCCCCCACCTCCCTTCCTTCCTATGGCACCACCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG
TTTCCCTTCCTCCCTTCCTTCCTGCCCCAGGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCCA
CAGTCTGTCCCCAGCCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCCTTGGGGTATTTCGGAGCCTGCCTTT
GGGCTTGCTTCTCCATGCCAGAGGAAGCCCCCGCCCCATCCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCCCTCCTCCGGTCCCCAGGGTCCCCGCAGGAG
ACAGTCCCTGAATTCCCCTGCACATTCTTCCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCCCG
GCCACATTGGCCCCCTTCAGGCCCCCTGCTTGTCCCCAAAGCGGAGCGGCTCTACCCCCAGCGCCAGCGGCAGT
GAACGGCGGCTGTGAGGGGACCTCAGCTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCCTCAGCCGGGGCGCTCCAGACAGCAACAAGACCGAGAACCGGCGTATCACACACATCTCCGCGGAGCAG
AAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGC
CTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGC
TTGCAGGAGGAGGCCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAG
CTGCCCCGCCACAGGGGTACCCATCACACACCAGCGTTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGA
ACCCGTACGCTGCACAACCTGGAAGTTCTGGGTGTTTTCAGCATCCTCATCCGGCCTCTGTTTGAGTCTTCAACGGG
ATGGTGTCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCACTGCTCTCTGCCC
GCTCTCCGGCCAACCTGTCTGAACCTCCCTACGCCAGCTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCG
ATCCCTGAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTATAGTCCCTGGCCAGACCCTGCT
GCTCACTCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCCTG
CCCCAGGCCCTGGCTCTGCCCTTCCTGGGGGTGGAGCAGGGTCCAGGTTTCACTTGCCACCTCCTGGAGGT
CAAGAAGAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGT
CTTTGGACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCAAGGCTTGG
CAGCTGTGACATTGGGGGCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTG
TCACCTCCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCC
TCTCTCTGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTTCCCTGGGAGAGGCCAGGAGGGCCTGAT
CCCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGGATGTGTGTGT
GTGGGTTTTGTAAAGAATTCTTGACCAATAAAAGCAAAAACCTGTCTGCTGGTTAAAAA

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FIGURE 2285

MAGALAGLAAGLQVPRVAPSPDSDSDTSEDPSLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS
DFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRAWYIQYVKRRKSPVCGFVTPLQ
GPEADAHRKPEAVVLEGNYWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV
VPVLLGDPEEEFPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS
DFFTNSRLPQPPMPSNFPEPPSFSPVVDLSLFSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRPFPPFTVPPAPGVSPLP
APAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPTTAGSNN
PCLTQLLTAAKPEQALEPPLVSSTLRSPGSPQETVPEFPCTFLPPTPAPTTPRPPPGPATLAPSRPLLVPKAER
LSPPAPSGSERRLSGDLSSMPGPGTLSVRVSPPQPILSRGRPDSNKTENRRITHISAEQKRRFNIKLGFDTLHGL
VSTLSAQPSLVSKATTLOKTAEYIILMLQQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPI THQRFDM
RDMFDDYVRTRLHNWKFVVSILIRPLFESFNGMVSTASVHTLRQTS LAWLDQYCSLPALRPTVLNSLRQLGTS
TSILTDPGRIPEQATRAVTEGTLGKPL

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FIGURE 2286

CCCCGCGCTGCGCGGAGCAGGGACCAGGCGGTTGCGGCGGCGACAGCCATGGCCGCGCGCTGGCAGGTCTGGCC
GCGGGCTTGCAAGTCCCGCGGGTCGCGCCCAGCCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTC
CGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTCATCCACAGCGGTCACTTCATGGTGTCTGCGCCGACAGC
GACTCGCTGCCCCGGCGGCGCGACCAGGAGGGTCCGTGGGGCCCTCCGACTTCGGGCGCGCAGTATCGACCCC
ACACTCACACGCCTCTTCGAGTGCTTGAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTT
AAAGGCCTCAAGCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTAT
GTGAAGCGGAGGAAGAGCCCCGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCCTGAGGCTGATGCGCACCCGGAAG
CCGGAGGCCGTGGTCTTGAGGGGGAAGTACTGGAAGCGGCGCATCGAGGTGGTGTGATGCGGGAATACCACAAGTGG
CGCATCTACTACAAGAAGCGGCTCCGTAAGCCCAGCAGGGAAGATGACCTCCTGGCCCCCTAAGCAGGCGGAAGGC
AGGTGGCCGCCCGGAGCAATGGTGCAAACAGCTCTTCTCCAGTGTGGTCCCGTGTCTGCTGGGGGACCCAGAG
GAGGAGCCGGGTGGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTTCACCATG
ACTCAGTCCGGCCCTTCGCCCCCTGCAGCTGCCGCTGAGGATGCCTACGTCGGCAATGCTGACATGATCCAGCCG
GACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTCCCGCCTCCCA
CAGCCGCCCATGCCTTCAAACCTTCCAGAGCCCCCAGCTTCAGCCCCGTGGTTGACTCCCTCTTCAGCAGTGGG
ACCCTGGGCCCAGAGGTGCCCCCGGCTTCCTCGGCCATGACCCACCTCTCTGGACACAGCCGTCTGCAGGCTCGG
AACAGCTGCCCTGGCCCCCTTGACTCCAGCGCCTTCTGAGTTCTGATTTCCTCCTTCTGAAGACCCCAAGCCC
CGGCTCCACCCCTCCTGTACCCCCACCTCTGCTGCATTACCTTCCCCCTGCCAAGGTGCCAGGCCTGGAGCCC
TGCCCCCACCTCCCTTCCCTCCCATGGCACCACCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGG
TTTCCCTTCCCCACCGTCCCTCCTGCCCCAGGAGTGTCTCCGCTGCTGCTCCTGCAGCCTTCCACCCACCCCA
CAGTCTGTCCCCAGCCCAGCCCCACCCCTTCCCCATAGAGCTTCTACCTTGGGGTATTTCGGAGCCTGCCTTT
GGCCTTGCTTCTCCATGCCAGAGGCAAGCCCCCGCCCCATCCCCTAGGGGACAGAAAGCCAGCCCCCTACC
TTAGCCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCA
GCTAAGCCGGAGCAAGCCCTGGAGCCACCACTTGTATCCAGCACCTCCTCCGGTCCCCAGGGTCCCCGCAGGAG
ACAGTCCCTGAATTCCCTTGCACATTCTTCCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCCG
GCCACATTGGCCCCCTTCCAGGCCCTGCTTGTCCCCAAGCGGAGCGGCTCTACCCCCAGCGCCAGCGGCAGT
GAACGGCGGCTGTGAGGGGACCTCAGTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTCTCTCCCCGCAA
CCCATCCTCAGCCGGGGCGCTCCAGACAGCAACAAGAACCGGCGTATCACACACATCTCCGCGGAGCAGAAGCGG
CGCTTCAACATCAAGCTGGGGTTTGACACCTTTCATGGGCTCGTGAGCACACTCAGTGCCAGCCCAGCCTCAAG
GTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCGTGCGGGCTTGAG
GAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGCTCAATGCCGCCATTAACTGTGCCAGCAGCAGCTGCCC
GCCACAGGGGTACCCATCACACACCAGCGTTTTGACCAGATGCGAGACATGTTTGATGACTACGTCCGAACCCGT
ACGCTGCACAACCTGGAAGTTCTGGGTGTTTTCAGCATCCTCATCCGGCCTCTGTTTGAGTCCTTCAACGGGATGGTG
TCCACGGCAAGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTACTGCTCTCTGCCCGCTCTC
CGGCCAACTGTCTGAACTCCCTACGCCAGCTGGGCACATCTACAGTATCCTGACCGACCCGGGCGCATCCCT
GAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTATAGTCTCTGGCCAGACCTGCTGCTCAC
TCAGCTGCCCTGGGGGCTGCTTTCCCTGGGCACGGGCTCCAGGGATCATCTCTGGGCACTCCCTTCTGCCCCAG
GCCCTGGCTCTGCCCTTCCCTGGGGGGTGGAGCAGGGTCCAGGTTTACACTTGCCACCTCCTGGAGGTCAAGAA
GAGCAGAGTCCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGACTCGTCCGCTGTCTTTGG
ACCGCTGTGTTTCAATCTGCAAAATGGGGATGGGGAAGGTTCAATCAGCAGATGACCCCCAGGCCCTGGCAGCTG
TGACATTGGGGGCTAGGCTGGCAACTCCGGGGGCTCAACGGTGGAAAGAGGAGGATGCTGTTTATCTGTACCT
CCACTTGCTCCCCGACAGGTGGGGCACAGACCTCTGTTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCTCTC
TGCTCCTTCACTGCTGACCCAGAGGGGCTGCAGGATGGTTTCCCTGGGAGAGGCCAGGAGGGCCTGATCCCAGG
AGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATGTGTGTGTGTGTGTGTGTGGATGTGTGTGTGGGT
TTTGTAAGAATTCTTGACCAATAAAAGCAAAAAGTGTCTGCTGGTTAAAAA

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FIGURE 2287

MAGALAGLAAGLQVPRVAPSPDSDSDTDSEDP SLRRSAGG LLRSQVIHSGHFMVSSPHSDSLPRRRDQEGSVGPS
DFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKNFKGLKLLCRDKIRLNNAIWRAWYIQYVKRRKSEVCGFVTPLQ
GPEADAHRKPEAVVLEGNYWKRRIEVVMREYHKWRIYYKKRLRKPSREDDLLAPKQAEGRWPPPEQWCKQLFSSV
VPVLLGDPEEEPGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNADMIQPDLTPLQPSLDDFMDIS
DFFTNSRLPQPPMPSNFPEPPSFSPVVD SLFSSGTLGPEVPPASSAMTHLSGHSRLQARNSCPGPLDSSAFLSSD
FLLPEDPKPRLPPPPVPPPLLHYPPPAKVPGLEPCPPPPFPPMAPPTALLQEEPLFSRFPFPTVPPAPGV SPLP
APAAFPPPTQSVSPAPTFFPIELLPLGYSEPAFGPCFSMPRGKPPAPSPRGQKASPPTLAPATASPPTTAGSNN
PCLTQLLTAAPPEQALEPPLVSS TLLRSPGSPQETVPEFPCTFLPPTPAPT PPRPPPGPATLAPSRPLLVPKAER
LSPPAPSGSERRLSGDLSSMPGPGT LSVRVSPQPILSRGRPDSNKNRRITHISAEQKRRFNIKLGFDTLHGLVS
TLAQPSLVSKATT LQKTAEYILMLQQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPI THQRFDQMRD
MFDDYVRTRLHNWKFWVFSILIRPLFESFNGMVSTASVHTLRQTS LAWLDQYCSLPALRPTVLNSLRQLGTSTS
ILTDPGRIPEQATRAVTEGTLGKPL

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FIGURE 2288

GACGGCAAATGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGATTCCCTTAAGGAAG
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTACAGAAAAGGTGGACCAGATGACAGAGGAATGGGTAGCTCTCGAGAATCTAGAGGTGGAT
GGGATTCCCGGGATGACTTCAATTCTGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAGGTAGTCGCCCAGGCG
ACCGGCGAACAGGCCCCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGATCCAACATGGATTTC
GAGAACCCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAGTCGCGACGCCCCCTCA
ATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCTAGAGAGGAAGTCGTTCAAAGGAGCAAG
AATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGGTGAGTCCCCGGGCAG
CCGTCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGAAACACAGCTTGTGAGTGCATGTCA
GCTGTTAACAAGTGGTTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTTTGTGCGTTTTTTCT
TTCTTCCGCTGCTTCCCCATTTTCTTCTGTCCTTTTTCTCCTGCTCCTTGTTTTCCAGCAGCACATGGGGTTC
CTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGGCGTTTTGGGCTGCGGTGCTGCGTCATTTTTCTTTGCTTTCTC
TTTACTTTAGACACTGGCCCAACTCCAGGCGTTTTCTTTTATTCCCTCAGTGCTTCTCTTCTGACCTGCATGTTG
AGTTCTGTATTGCTGGGGCTTCCAACAAAAACCAGAGTCACTGACAGAGGGAACAGCAGAGACCTTGTGGTATT
CAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTTCAAACTAGGATAAAAAATATCTGCAGGGTCCTTTC
CATTCTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCAGATAGGCTCACACGA
GAAACAGTGAGGCTGAAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGATGCAGTGAATGCTTGC
ATGCATTACACGTTGTGTGTGCCAGCTAGTTCACTCCTTTTCGCCGTGCGTGGTGGAGGCTGGCCTCTCTGGCT
GGGTGCAGTGAATGGCCAGCGGGTTTTTTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGAGGGGGTGGTGTGGT
GCTGCACTGGGCTGACTGCGGCGCTGACGCAGCGTTTTCCCCCATCCCTGTTGCCTGTGTGTTGTGTGGATCTGT
TCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCACCTCCCCCTCAGTTTCAGAGCCAAAATGGGTCTAGAA
TCTGGCACTTTACTCATTTCCTTTGATAAATTGTACTATGCAGAGCTGTCAGGAACCTTCAGATAGCAGTAGAGG
ACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGCAGGGTTCAGCAGTTA
TGTTGGGAGTGCTAGGGGTTAGGCTTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAAAATCCTTCAGTACCCA
AGTCCCAGTCTGTCCTATGGGGAGCAGTTTGGGGCGCGCCGGCAGCAGGAGCCTGGGAAAGAGGCCCTCGCCAGG
TGATGGCAGGGCCAGGGTGGCCTGGGGCACCAGCGGAATGTGCTTAGTATTTGGTCACCAGCCGTCATCCTGGG
CTTTTCTACTGTGTCTTTGTTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCCTTCCCTTCCACCTGTCAGCTT
CTCTGCTTCTGAGATAAGAACCATTGTGTAAACCAACACTTAACCTCAGAAAGACATGCATTATGTGGTGTAA
TCAAACCCGATGCTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACAAAACACATGCATCTA
AACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATTCCAAACACTTAACACATTACAGCTATATGAC
AGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAAGAAAACCTTACGTAATATTT

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FIGURE 2289

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPPFNTVQGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGMGSSRESRGGWDS
RDDFNSGFRDDFLGGRGGSRPGDRRTGPPMGSFRDGPPLRGSNMDFREPTTEERAQRPRQLKPRTVATPLNQV
ANPNSAIFGGARPREEVVQKEQE

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FIGURE 2290

GACGGCAAATGGCGGACTTCGACACCTACGACGATCGGGCCTACAGCAGCTTCGGCGGCGGCAGAGGGTCCCGCG
GCAGTGCTGGTGGCCATGGTTCCCGTAGCCAGAAGGAGTTGCCACAGAGCCCCCTACACAGCATACGTAGGAA
ATCTACCTTTCAATACGGTTCAGGGCGACATAGATGCTATCTTTAAGGATCTCAGCATAAGGAGTGTACGGCTAG
TCAGAGACAAAGACACAGATAAAATTTAAAGGATTCTGCTATGTAGAATTCGATGAAGTGGAATCCCTTAAGGAAG
CCTTGACATACGATGGTGCACCTGTTGGGCGATCGGTCACTTCGTGTGGACATTGCAGAAGGCAGAAAACAAGATA
AAGGTGGCTTTGGATTTCAGAAAAGGTGGACCAGATGACAGAGGCTTCAGGGATGACTTCTTAGGGGGCAGGGGAG
GTAGTCGCCCAGGCGACCGCGAACAGGCCCCCCCATGGGCAGCCGCTTCAGAGATGGCCCTCCCTCCGTGGAT
CCAACATGGATTTTCAGAGAACCACAGAAGAGGAAAGAGCACAGAGACCACGACTCCAGCTTAAACCTCGAACAG
TCGCGACGCCCCCTCAATCAAGTAGCCAATCCCAACTCTGCTATCTTCGGGGGTGCCAGGCCCTAGAGAGGAAGTCG
TTCAAAGGAGCAAGAATGAGCCTGCGGTTGGGAGGGAATGGGGCGTGGGGGGTTAGAGCAGGACCACAGCCTGG
TGAGTCCCCGGGCAGCCGTCCTGCAGCCGCCACTCCTGCGCCTGCCATTGGCCTCCTCACAGCGGAAACACAGCT
TGTGAGTGCATGTCAGCTGTTAACAAGTGTTTTTAGTACATTCTGGGCTTTGCTGTATCTATCTAGTGCCTGTT
TGTGCGTTTTTTCTTTCTTCCGTGCTTCCCCATTTTCTTCTGTCTTTTTCTCCTGCTCCTTGTTTTCCAG
CAGCACATGGGGTTCTCGGAGGAGCAGAGGTGGCCGCCGTGGGGGGCGTTTGGGCTGCGGTGCTGCGTCATTT
TTCCTTTGCTTTCTCTTTACTTTAGACACTGGCCCAACTCCAGGCGTTTTCTTTTCAATCCCTCAGTGCTTCTCTT
CTGACCTGCATGTTGAGTTCTGTATTGCTGGGGCTTCCAACAAAACCAGAGTCACTGACAGAGGGAACAGCAGA
GACCTTGTTGGTATTTCAGCTGTGATGGATATAGAGAATCAGAGGCACCTTGTTTTCACTAGGATAAAAATAT
CTGCAGGGTCTTTCCATTCTTATTTAGAGGGAGTCTGGCTCCATGACCCCTCCCGAGTGGACTGTCCAAGCA
GATAGGCTCACACGAGAAACAGTGAGGCTGAAAGGGGGGGCTATGGAAGAGCGGTAGGGAGTCCACGGAGAAGAT
GCAGTGAATGCTTGATGCATTCACACGTGTGTGTGTGCCAGCTAGTTCACTCCTTTTCGCCGTGCGTGGTGGAGG
CTGGCCTCTCTGGCTGGGTGCAGTGAATGGCCAGCGGGTTTTCTTTCTGCTGGGCCAAGGCGCTTTGGGGGTGGA
GGGGGT
GTTGTGTGGATCTGTTCCCTAGTATAGGCAACATAATGAGATACTGTGCTTCCCACCTCCCTTCAGTTCAGAGCC
AAAATGGGTCTAGAATCTGGCACTTTACTCATTTCTTTTGATAAAATTGTACTATGCAGAGCTGTGAGGAACCTTC
AGATAGCAGTAGAGGACTGCAGCTGTCTAGGTCTGCGGCCACATCTTGGGGACACACTGGACTGTTCCCATGTGC
AGGGTTTCAGCAGTTATGTGGGAGTGCTAGGGGTTAGGCTTTTGAGCTTGAACGCCTGCGTGTGAACAGATGAAAA
ATCCTTCAGTACCCAAAGTCCAGTCTGTCTATGGGGAGCAGTTTGGGGCGGCCGCGCAGCAGGAGCCTGGGAAA
GAGGCCCTCGCCAGGTGATGGCAGGGCCAGGGTGGCCTGGGGCACCCAGCGGAATGTGCTTAGTATTTGGTCACC
AGCCGTCATCCTGGGCTTTTCTACTGTGTCTTGTACAAGGCCTCAGCAATCCACAGAACTCTCTCTCTCTCTCT
TCCACCTGTCAGCTTCTCTGCTTCTGAGATAAGAACCATTGTGTAAACACCAACACTTAACCTCAGAAAGACATG
CATTATGTGGTGTAATCAAACCCGATGCTTTTCAGATGACCTACTTACATCTTCAATGTGGATAAGATAAAGAACA
AAACACATGCATCTAAACTGCTGGGCAATCCAGTTGACTTTTAAATGTAAGAATGGAATCCAAACACTTAACAC
ATTTCAGCTATATGACAGAAAGTAAATCTATGGATATGGTATTTTGTGAATGATCTTTTAAATAAAAGAAAACCTT
ACGTAATATTT

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FIGURE 2291

MADFDTYDDRAYSSFGGGRGSRGSAGGHGSRSQKELPTEPPYTAYVGNLPEFNTVQGDIDAIFKDLSIRSVRLVRD
KDTDKFKGFCYVEFDEVDSLKEALTYDGALLGDRSLRVDIAEGRKQDKGGFGFRKGGPDDRGFRDDFLGGRGGS
PGDRTGPPMGSRFRDGPPLRGSNMDFREPTTEERAQRRLQLKPRTVATPLNQVANPNSAIFGGARPREEVVQK
EQE

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FIGURE 2292

GGGAAGAGGAGGCGCGAGAATGGAGGTGGAGGCCGTCTGTGGTGGCGCGGGCGAGGTGGAGGCCAGGACTCTGA
CCCTGCCCCCTGCCTTCAGCAAGGCCCCCGGCAGCGCCGGCCACTACGAACTGCCGTGGGTGAAAAATATAGGCC
AGTAAAGCTGAATGAAATTGTCGGGAATGAAGACACCGTGAGCAGGCTAGAGGTCTTTGCAAGGGAAGGAAATGT
GCCCCAACATCATCATTGCGGGCCCTCCAGGAACCGGCAAGACCACAAGCATTCTGTGCTTGGCCCCGGGCCCTGCT
GGGCCCAGCACTCAAAGATGCCATGTTGGAACCTCAATGCTTCAAATGACAGGGGCATTGACGTTGTGAGGAATAA
AATTAAATGTTTGCTCAACAAAAAGTCACCTCTCCCAAAGGCCGACATAAGATCATCATTCTGGATGAAGCAGA
CAGCATGACCGACGGAGCCCAGCAAGCCTTGAGGAGAACCATGGAAATCTACTCTAAACCACCTCGCTTCGCCCT
TGCTTGTAATGCTTCGGATAAGATCATCGAGCCCATTCAGTCCCGCTGTGCAGTCCTCCGGTACACAAAGCTGAC
CGACGCCCAGATCCTCACCAGGCTGATGAATGTTATCGAGAAGGAGAGGGTACCCTACACTGATGACGGCCTAGA
AGCCATCATCTTCACGGCCCAGGGAGACATGAGGCAGGCGCTGAACAACCTGCAGTCCACCTTCTCAGGATTG
CTTCATTAACAGTGAGAACGTGTTCAAGGTCTGTGACGAGCCCCACCCACTGCTGGTAAAGGAGATGATCCAGCA
CTGTGTGAATGCCAACATTGACGAAGCCTACAAGATTCTTGCTCACTTGTTGGCATCTGGGCTACTCACCAGAAGA
TATCATTGGCAACATCTTTCGAGTGTGTAAAACCTTCCAAATGGCAGAATACCTGAAACTGGAGTTTATCAAGGA
AATTGGATACACTCACATGAAAATAGCGGAAGGAGTGAACCTCTTTTGCAGATGGCAGGCCTCCTGGCAAGGCT
GTGTGAGAAGACAATGGCCCCGGTGGCCAGTTAGAGCAGAGACTTCACTGACTGACTTACAGGTGCCCTATTCTG
AGGTACAGGAGCCGCGGCTTTCTGATGGGGGAAAATGCCGCCTTAGGCTGGAGCCAACATGACTGTCCTTTAAAC
TCCAGTGGCTGGCCAGGCACGGTAGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGTGGATCACC
TGAGGTGAGAAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCCTGTCTTTACTAAAAATATAAAATTAGCTG
GGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGTGGCAGGAGAATCGCTTGAAACCAGGAGGTG
GAGGTGTCAGTGAGCCAAGATCACACCATTGCACTCCAGCCTGGGCGACAGAGTCTCCATCTGGGGAAAAAAATT
AAATAAATAAACTCCCG

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FIGURE 2293

TAAATGGCAGCCAAATGGAGGGTGGTGTTCGCGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCCGCCCTCCGCCGC
AGCCCCGCGCCGGGGTGGGGGCGCCGAGCGCCAGCCCCCGGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCG
CGCTCCCTCCCCGCCCTCGCCGCGCCGCCGTCTCGCTCCCTCTGCCTCTCCTTCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCGCCGCTGGCAGGAGCGCTTGG
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC
TGGAATCCGCGTTACCCGCAAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCG
CTGTCCAAACTGAACGCCGAGGTGGCCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGAGGGCCCCCGTGGAAAG
GATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTCTCTCCCTG
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGCCCTG
GGAAGGGCCAGTGTGGTGCCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT
GTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTG
CCCCCAACCGCCACCTCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCAGCGACCTGGGCCTGAGTCGGCCCATGCCAGAGCCCAAG
GCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC
GTCCATGCCTCCAAGCGCATTCTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCCTTCATAAAGGAA
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGCAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC
AAGATCCCCCTTCAAGCGCCCCCTGCACCTTATGGAGTCCCCAAGCTGAAGCGGATCCTGGAGGAGCGCCATAGTATC
CACTTCATCATTAAAGAGGATGTTTGATGAGCGAATTTTACAGGGAACAAGTTTACCAAAGACACCACGAAGCTG
GAGCCAGCCAGCCCCGCCAGAGGACACCTCTGCAGAGGTCTCTAGGGCCACCGTCCTTGACCTTGCTGGGAATGCT
CGGTCAAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCAGACCCCTCGCCAACCTCTGAGGAAATGACA
GACTCGATGCCTGGGCACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT
GAGGACGCGCGGCCGGAGGAGAGGCCCTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTGCCGTACTCCAAGTTT
CTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGCATCTCCCTCCGCAGGCCCAACTGCTTCGGG
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAAGTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCCC
CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATATGACGCG
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG
GGGCTGCCCCCAGGAATCCCGTTCCGAAAGCCCTGTACCTTCGGCTCCCAGAACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTACAGTCACCAGGCCCTTCCAAGGACTCATCCCAAGCCTGATGAAGATGACGCCAAC
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAATCTTCAACGAGAAATACGGTGAGGCCCTGGGC
CTGAACCGGCCGGTGTGGTCCCTTATAAACTAATCCGGGACAGCCCAGACGCCGTGGAGGTACGGGTCTGCCT
GATGACATCCCTTCCGGAACCCCAACACGTACGACATCCACCGGCTGGAGAAGATCCTGAAGGCCCGAGAGCAT
GTCCGCATGGTCATCATTAAACAGCTCCAACCTTTGCAGAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC
AGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATCCGTCTCCTCTTCTCCTCCTCGTCTCCTCT
TCTCGTCTCTAACC CGGATT CAGTGGCATCGGCCAACAGATCTCACTCGTGCAATGGCCAATGTACATGGTG
GACTATGCCGGCCTGAACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATGCCTTTTAGTTTTTCC
AATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTAAATAAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2294

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSALDSMCSALSKLNAEVACVAVHDESAFVVGTEKGRMFLN
ARKELQSDFLRFRCRGPFWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLYSEALGRASVV
PLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPLEDGGRDSKALVELNGVSLIPK
GSRDCGLHGQAPKVPPQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMPEPKATGAQD
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWDAFIKETEDINTLRECVQILFNSRYAEALGLDHMVPV
PYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLRILEERHSIHFIKRMFDERIFTGNKFTKDTTKLEPASPP
EDTSAEVSRA TVLDLAGNARSDKGSMSEDCGPGTSGELGGLRPIKIEPEDLDIIQVTVDPDSPTSEEMTDSMPGH
LPSEDSGYGMEMLTDKGLSEDA RPEERPVEDSHGDVIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE
LFVVGLPEGISLRRPNCFGIAKLRKILEASNSIQFVIKRPPELLTEGVKEPIMDSQGTASSLGFSPPALPPERDSG
DPLVDESLKRQGFQENYDARLSRIDIAN TLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVII EGLPPGI
PFRKPCTFGSQNLERILAVADKIKFTVTRPFQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVL
VPYKLIRDSPDAVEVTGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEICNDAKVP AKDSSIPKR
KRKR VSEGN SVSSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLNVQLPGPLNY

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FIGURE 2295A

AGGAGGAGGAGGGTGAGAGAGAAGCTGGGAGAGCAGAGAAAAGGGGCCACCGGTGCGCCCCCGCTTCCCCGCAC
GCGCTCTCCAGCCGCGGCCCGCCCGCTGCCGCGGTACCCCGGCCTCTGCCTCTGTCCCCCAGTGATCGGATCAA
GGCGCTGAGCGAGGCCCTGCCTGCGGGGCGGCCATGCGGCGGTGACAGGAGCGCGACCGACACGCACGGGCCCT
CGCCCCCTCTCGCTCCCGTCCGCTCGCCAGCTCCCTCAGCCGAGGCTGCTCCGCGGCGGCCGAGCCCGCGCG
CGGCCACACTCGCTCCCTCGGCACCCCGGCCCGGAGCTGCCTGGAGGCGGCCGCACTCGGGGATCATGGC
CCAAGTTGCAATGTCCACCTCCCGTTGAAGATGAGGAGTCTCGGAGAGCAGGATGGTGGTGACATTCTCAT
GTCAGCTCTCGAGTCCATGTGTAAAGAACTGGCCAAGTCCAAAGCCGAAGTGGCCTGCATTGCAGTGTATGAAAC
AGACGTGTTTGTCTCGTGGAACTGAAAGAGGACGTGCTTTTGTCAATACCAGAAAGGATTTTCAAAAAGATTTTGT
AAAATATTGTGTTGAAGAAGAAGAAAAAGCTGCAGAGATGCATAAAATGAAATCTACAACCCAGGCAAATCGGAT
GAGTGTAGATGCTGTAGAAATTGAAACACTCAGAAAAACAGTTGAGGACTATTTCTGCTTTTGTATGGGAAAGC
TTTAGGCAAATCCACAGTGGTACCTGTACCATATGAGAAGATGCTGCGAGACCAGTCGGCTGTGGTAGTGACGGG
GCTTCCGGAAGGTGTTGCCTTTAAACACCCCGAGAAGTATGATCTTGCAACCCTGAAATGGATTTTGGAGAACAA
AGCAGGGATTTTCATTTCATCATTAAGAGACCTTTTTTAGAGCCAAAGAAGCATGTAGGTGGTGTGTATGGTAAC
AGATGCTGACAGGTCAATACTATCTCCAGGTGGAAGTTGTGGCCCATCAAAGTGAAAAGTGAACCCACAGAAGA
TTCTGGCATTTCCTGGAAATGGCAGCTGTGACAGTAAAGGAAGAATCAGAAGATCCTGATTATTATCAATATAA
CATTCAAGCAGGCCCTTCTGAAACTGATGATGTTGATGAAAAACAGCCCTATCGAAGCCTTTGCAAGGAAGCCA
CCATTCTTCAGAGGGCAATGAAGGCACAGAAATGGAAGTACCAGCAGAAGATTCTACTCAACATGTCCCTTCAGA
AACAAGTGAGGACCTGAAGTTGAGGTGACTATTGAAGATGATGATTATTCTCCACCGTCTAAGAGACCAAAGGC
CAATGAGCTACCGCAGCCACCAGTCCCGGAACCCGCCAATGCTGGGAAGCGGAAAGTGAGGGAGTTCAACTTCGA
GAAATGGAATGCTCGCATCACTGATCTACGTAAACAAGTTGAAGAATTGTTTGAAAGGAAATATGCTCAAGCCAT
AAAAGCCAAAGGTCCGGTGACGATCCCGTACCCTCTTTTCCAGTCTCATGTTGAAGATCTTTATGTAGAAGGACT
TCCTGAAGGAATTCTTTTGAAGGCCATCTACTTACGGAATTCCTCGCCTGGAGAGGATATTACTTGCAAAGGA
AAGGATTGTTTTGTGATTAAGAAACATGAGCTTCTGAATTCAACACGTGAAGATTTACAGCTTGATAAGCCAGC
TTCAGGAGTAAAGGAAGAATGGTATGCCAGAATCACTAAATTAAGAAAGATGGTGGATCAGCTTTTCTGCAAAAA
ATTTGCGGAAGCCTTGGGGAGCACTGAAGCCAAGGCTGTACCGTACCAAAAATTTGAGGCACACCCGAATGATCT
GTACGTGGAAGGACTGCCAGAAAAACATTCTTTCCGAAGTCCCTCATGGTATGGAATCCCAAGGCTGGAAAAAAT
CATTCAAGTGCGCAATCGAATTAAATTTGTTATTAAAGACCAGAACCTTCTGACTCACAGTACCACTGAAGTTAC
TCAGCCAAGAACGAATACACCAGTCAAGGAAGATTGGAATGTCAGAATTACCAAGCTACGGAAGCAAGTGAAGA
GATTTTTTAATTTGAAATTTGCTCAAGCTCTTGAGCTCACCGAGGCAGTAAAGTACCATATCCTGTGTTGAATC
AAACCCGAGTTCCTGTATGTGGAAGGCTTGCCAGAGGGGATTCCCTTCCGAAGCCCTACCTGGTTTGAATTCC
ACGACTTGAAAGGATCGTCCGCGGGAGTAATAAAATCAAGTTTCGTTGTTAAAAAACCTGAACTAGTTATTTCTTA
CTTGCTCCTGGGATGGCTAGTAAATAAACACTAAAGCTTTGCAGTCCCCAAAAGACCACGAAGTCTGGGAG
TAATTCAAAGGTTTCCTGAAATTGAGGTCACCGTGGAAGGCCCTAATAACAACAATCCTCAAACCTCAGCTGTTCCG
AACCCCGACCCAGACTAACGGTTCTAACGTTCCCTTCAAGCCACGAGGGAGAGAGTTCCTTTGAGGCCTGGAA
TGCCAAAATCACGGACCTAAACAGAAAGTTGAAAATCTCTTCAATGAGAAATGTGGGGAAGCTCTTGGCCTTAA
ACAAGCTGTGAAGGTGCCGTTTCGCGTTATTTGAGTCTTTCCCGGAAGACTTTTATGTGGAAGGCTTACCTGAGGG
TGTGCCATTCCGAAGACCATCGACTTTTGGCATTCCGAGGCTGGAGAAGATACTCAGAAACAAAGCCAAAATTAA
GTTTCATCATTAAAAAGCCCGAAATGTTTGAGACGGCGATTAAAGGAGAGCACCTCCTCTAAGAGCCCTCCAGAAA
AATAAATTCATCACCCAATGTTAATACTACTGCATCAGGTGTTGAAGACCTTAACATCATTAGGTGACAATTCC
AGATGATGATAATGAAAGACTCTCGAAAGTTGAAAAAGCTAGACAGCTAAGAGAACAAGTGAATGACCTCTTTAG
TCGGAATTTGGTGAAGCTATTGGTATGGGTTTTCTGTGAAAGTTCCCTACAGGAAAATCACAAATTAACCCTGG
CTGTGTGGTGGTTGATGGCATGCCCCGGGGGTGTCCTTCAAAGCCCCCAGCTACCTGGAAATCAGCTCCATGAG
AAGGATCTTAGACTCTGCCGAGTTTATCAAATTCACGGTCATTAGACCATTTCCAGGACTTGTGATTAATAACCA
GCTGGTTGATCAGAGTGAGTCAGAAGGCCCGTGATACAAGAATCAGCTGAACCAAGCCAGTTGGAAGTTCCAGC
CACAGAAGAAATAAAAGAGACTGATGGAAGCTCTCAGATCAAGCAAGAACCAGACCCACGTGGTAGACCTCTTC
CCTCCTAGGCTTAAAGTATCAGTGGTTGAGAAGAGCTTTTTCGGACCTGTTACTACCCCAAGCTGTGTAATATACT
TGATAACAGAAATACCTTCTATACAAACCTTTTTTCTACTTTTAGATAGAAATGTCTACTTTTTTCAGCAGTTC
TGTGAATTAAGAGCAGAGTGACTGTGGGTCTGGAATGGCTGGTGTACTTGGGAATGTACTATCAGGATTTTACA

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FIGURE 2295B

GCAATGCTGGGAAATGACAGGGGAAATGACAGGAATGAATCTCACCAGATTTTTTATGTACTCAGCAGAGCCTTG
AGTTACGGTGTTTATTTTCCAATCAAGTGAAGATATCTCCTACTTCTCCTACTGGAACATCTCAGCTTCTGCAGT
GAAGAAAAATTCCTGTGATAGTTCAGTTCCTTAGTTTTTCTATTTGAAAAAAAAAATCATTAAATGATCCTTT
GTTACGGCTCTCCTTAATGACTGAGTGAACAGTTCCTATCTGTATATTTGACTAAACCTTTTCCTAAGCTATCT
CTCATGGTTCCTATGTTTTTTTATCATAATTAAGCAAAACCATCTGGATCACCTAACAGTCAGAGGTCAGTAT
CTCAGCGTGTGAATTATAGAGGAAATACAGAGAGAACCTCTTCCACTTTTACTTTTCGTCCAAATAAAATGCATG
GTGTACCAGAAGTTGAAGATCGGGTTGAGGATTGGGGCTAGCTCGATGACACTAAGGCCCAACATCGCGGGACC
TGCTGTGGCGCGGATTCTTAGGAACGCTGTTCTAGCCGGCCCCCTCTCCAGGGGTCGCGTGGCCGGCATTATTTT
CTAGTTCTTCTTGTAACCCCTGAGGTGCCAGCGCGGGGAGTGAGGAGGGGTCAGGGGGCTAAGGATGCAACCTCTG
ACGTTCTGCGCCTTCCTAGGAGAGTCTTACATGTGTTGAGATTTCAAGCAATGCGAGTTGTAAAATACCAGCT
CTACAAGAAGCTAGGCTCTGTGACGGCATAGTTTTTCAGTAGCTTTATCACAAATATTCACAATGGAGAATTATATG
ACATGGTAGCAGAAATAGGCCCTTTTATGTGTTGCTTCTATTTTACCTCAAATTGTAGATATAGGGTAATCAATA
AAATCCATCCATGCCTTTCACACACTAAAAAGTCGGA

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FIGURE 2296

MAQVAMSTLPVEDEESSESARMVVTFLMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAFVNTRKDFQKD
FVKYCVEEEEKAAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYKGALGKSTVVPVPYEKMLRDQSAVVV
QGLPEGVAFKHPENYDLATLKWILENKAGISFIIKRPFLPKKHVGGGRVMVTDADRSILSPGGSCGPIKVKTEPT
EDSGISLEMAAVTVKEESEDPDYYQYNIQAGPSETDDVDEKQPLSKPLQGSHSSEGNEGTEMEVPAEDSTQHVP
SETSEDPEVEVTIEDDDYSPPSKRPKANELPQPPVPEPANAGKRKVREFNFEKWNARITDLRKQVEELFERKYAQ
AIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRPSTYGIPRLERILLAKERIRFVIKKHELLNSTREDLQLDK
PASGVKEEWYARITKLRKMVDQLFCKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPRLE
KIIQVGNRIKFVIKRPPELLTHSTTEVTQPRINTPVKEDWNVRITKLRKQVEEIFNLKFAQALGLTEAVKVPYPVF
ESNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKPELVISYLPFGMASKINTKALQSPKRPRSP
GSNSKVPEIEVTVEGPNNNNPQTSAVRPTQTNGSNVPFKPRGREFSFEAWNAKITDLKQKVENLFNEKCGEALG
LKQAVKVPFALFESFPEDFYVEGLPEGVPFRPSTFGIPRLEKILRNKAKIKFIKKPEMFETAIKESTSSKSP
RKINSSPNVNTTASGVEDLNIQVTIPDDDNERLSKVEKARQLREQVNDLFSRKFGAIGMGFPVKVPYRKITIN
PGCVVVDGMPPGVSFKAPSYLEISSMRRLDSAEFIKFTVIRPFPGLVINNQLVDQSESEGPVIQESAEPQLEV
PATEEIKETDGSSQIKQEPDPTW

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FIGURE 2297

GCGACTTCCTCTTTCCAGTGCATTTAAGGCGCAGCCTGGAAGTGCCAGGGAGCACTGGAGGCCACCCAGTCA**ATGG**
GGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGCCAGCACTATGTGTACA
TGTTCTTGGTGAAATGGCAGGACCTGTCTGGAGAAGGTGGTCTACCGGCGCTTCACCGAGATCTACGAGTTCCATA
AAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATCATCCCCACCTCCCAG
CTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCGCCAGGGCACACTTACCGAGTACTGCGGCACGCTCA
TGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTTCTTCAAGGTGCGCCCTGATGACCTCAAGC
TCCCCACGGACAACCAGACAAAAAGCCAGAGACATACTTGATGCCCAAAGATGGCAAGAGTACCGCGACAGACA
TCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCAACTACGAGAAGACCTCGGGCTCCGAGATGGCTC
TGTCACGGGGGACGTGGTGGAGGTCGTAGAGAAGAGCGAGAGCGGTGACACCTCCACCTTACGGGGCTCCTTC
CCCTGGTGCTCAGGAACCCACAGCCACAAGCCCCCTGCCAAGGCTCAGGCAGCCTTGCCCCCTGGGAGGACTCCGG
CTCTGTTAGGGGCCCTAAATGTCTCCCCACACTGTGGGTGCGCTTCTGTCTTAGTGTGCACCTGTGGTGGCTG
TGGGCATCTGTGCTTGGCAGGCCGGGGCGGGGCATGTCTGCGTGTCTGTCTGGATGGGTATGGGACCGTCTGTT
CATTAT**TGA**AGTGGGCTCAGAGCTGTGATTCTGTGAGCATGTGTGCATGCATGCATGTGACCTCATTGTCCGGTGT
GGTGAAGGTGACATTTCAAATCTGAGCATTGGACATCAGTGTGTCTGTGTCCCTGTGTCTCACCATCCCTGAT
GGCTGCAGGGAGCCGCTGGGCCCTGCCCTCAGTCACATTCGCGCACCTCTGGCACAGGTTGGTGGTTCTGTCAG
ATGAAAGCAAAGCGAGGCTGGATCCCAGCGTCTTCTCTGAGCCCCTGGACAGTCCTGACGAGACGGAAGACCT
G

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FIGURE 2298

MGDTFIRHIALLGFEKRFVPSQHYVYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEMFPIEAGAINPENRIIPHL
PAPKWFDGQRAAENRQGTLECYCSTLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKDGKSTAT
DITGP IILQTYRAIANYEKTSGSEMALSTGDVVEVVEKSESGQTSHLTGLLPLVLRNPQPQAPCQSGSLAPGRT
PALLGALNVLP TLWVAFCLSVHPVAVGICAWQAGAGHVCVFCLDGYGTVC SL

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FIGURE 2299A

GAGCCCCAGGGAGGCGGATCTGGGCCCCGAGAAGGACACCCGCTGGATTGCCCCGTAGGCCCCGGCCGGGCCCC
CTCGGGAGCAGAACAGCCTTGGTGAGGTGGACAGGAGGGGACCTCGCGAGCAGACGCGCGGCCAGCGACAGCAG
CCCCCCCCGGCCTCTCGGGAGCCGTGGGGCAGAGGCTGCGGAGCCCCAGGAGGGGGCCAGTGTCAATCAAAGATG
TGGCTGTGGATTTACCCAGGAGGAGTGGCGGCAACTGGACCCTGATGAGAAGATAACATACGGGGATGTGATGT
TGGAGAACTACAGCCATCTAGTTTCTTGGCTTATGAGGTGGCAACATCTTGTACTTCGGAGATTCTGAAGCCGA
GCAACTTGCCCCAAGTCTTCTTCTTTTCCCATTAAACAAGATATGATATCACCAAGCCAAACGTCATCATTAAAGTT
GGAGCAGGGAGAGGAGCTGTGGATAACGGGAGGTGAATTTCCATGTCAACATAGTCCAGCCCCCTCACATCCTCAG
CCGAAGATCTCACTTCGTCCCAGAGGCCTTTGCTGACTGACCCCTCAGGGATCGTGGGACTTTACCAGATCGGTT
TGTAATAACACCTCGAAGACGCTATCCGATCCATCAGACCCAGTATTCTGTCCGGGGGTACTTCCCACAGTGTG
CTGGAATGGTTATCACAAGAAGGCTGTGCTGTCCCTCGCAACTCCAGGATGGTGTGTAGCCCAGTGAAGTGTGAG
GATCGCCCCCTCCTGACAGAAGATTTTACGTTCTGCGATACCAGAGCAGATAATCAGCTCAACACTGTCGTCAACC
ATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGTACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGGAC
AGTGGAGGAAGAAGACCAAATATTCCTTGATGGCCAGGAAAATAAAAGAAGGCGCCATGATAGCAGTGGCAGTGG
ACATTCAGCATTTGAGCCCCCTGGTGGCCAGTGGAGTCCCGCTTCTTTTGTGCCTAAGCCTGGGTCTCTGAAGAG
AGGCCTCAATTCTCAGAGCTCAGATGACCACTTGAATAAGAGATCCCGAAGCTCTTCCATGAGCTCCTTGACAGG
CGCTTACACAAGTGGCATCCCTAGCTCCAGCCGCAATGCCATTACCAGTTCTTACAGCTCCACTCGAGGCATCTC
ACAGCTCTGGAAGAGAAATGGCCCCAGTTCATCACCCCTTCTCTAGCCCAGCCTCATCCCGCTCCAGACACCGGA
GAGGCCAGCAAAGAAAATAAGAGAAGAAGAGCTGTGTATCATTTCCAGTTCTTCAACTCCATTGGCAGCAGACAA
GGAGTCCCAGGGAGAAAAGGCTGCAGATACAACCCCAAGGAAGAAACAAAACCTCGAATTCTCAGTCTACACCTGG
CAGCTCTGGGCAGCGTAAGCGGAAAGTTTCACTGCTGCCTTCTCGGCGAGGGGAACAGCTGACCTTGCTCCACC
TCCCCAGCTTGGCTATTTCGATCACTGCCGAGGACCTAGACTTAGAGAAGAAGGCTTCATTACAGTGGTTCAACCA
GGCCTTGGAGGACAAGAGTGATGCTGCCTCGAACTCTGTCACTGAGACCCACCTACCACTCAGCCTTCATTTAC
CTTIACCCTGCCTGCTGCTGCAACTGCCTCCCCACCCACCTCCCTCCTGGCCCCAAGCACCAACCCACTGTTAGA
GAGCTTGAAGAAGATGCAGACTCCCCCGAGCCTGCCACCCTGCCAGAATCTGCTGGAGCAGCAACCACTGAGGC
CCTCTCACCTCCAAAGACACCCAGCCTCCTACCCCGCTGGGTTTATCACAGTCAGGGCCGCCAGGGCTGCTCCC
CAGCCCCCTCCTTTGACTCCAAACCCCCGACCACTTTGCTGGGGCTGATCCCTGCTCCATCCATGGTACCAGCCAC
TGACACCAAGGCACCTCCAACCCCTCAAGCAGAGACGGCTACCAAACCCCAAGCCACATCTGCCCCGTCCCCCGC
CCCCAAGCAAAGCTTCTGTTTGAACACAGAACACCTCACCTTCCAGCCCTGCCGCCCCCTGCTGCATCTTCAGC
ATCTCCCATGTTTCAAGCCCATTTTACGGCTCCACCCAAGAGTGAGAAGGAAGGCCCCACACCGCCTGGCCCTTC
AGTCACAGCCACAGCGCCCTCCAGCTCCTCCCTCCCCACGACCACCAGCACCACAGCCCCGACCTTCCAGCCTGT
CTTTAGCAGCATGGGGCCACCTGCATCTGTGCCCTTGCTGCTCCCTTCTTCAAGCAGACAACCTACTCCCCGCCAC
TGCTCCCACCACAAGTCCCCGCTCTTCACTGGCCTGGCCAGCGCCACCTCTGCTGTGGCTCCCATCACCTCTGC
CAGTCCATCCACAGACTCTGCTTCGAAGCCTGCGTTTGGCTTTGGCATAAACAGTGTGAGCAGCAGCAGTGTGAG
TACCACGACCAGCACCGCCACTGCCGCCTCACAGCCTTCTCTTCCGGGGCGCCCCAGGCCTCTGCTGCCAGCTT
CACCCCGGCCATGGGCTCCATATTCCAGTTTGGCAAACCTCCTGCCTTGCCCCACAACCACCACAGTCAACACCTT
CAGCCAGTCCCTGCCCCTGCGGTGCCAACGGCCACCAGCAGCAGCGCTGCCGACTTTAGTGGTTTTTGGCAGCAC
CCTCGCCACCTCCGCCCCGGCCACCAGCAGCCAGCCACTCTGACGTTTCAAGTAAACGAGCAACCCACAGTTCAA
CATTCCTTTGGCTCAAGCGCCAAGTCCCCGCTCCCATCATATCCGGGAGCCAACCCCAAGCCCGCATTTGGGGC
CGCTGAGGGGCAGCCACCGGGGGCGCCAAGCCAGCCCTTACCCCAAGCTTTGGCAGCTCTTTCACTTTTGGAAA
CTCTGACCCCCGGCCCCGGCTACTGCACCCACACCTGCACCTGCGTCCACGATCAAGATCGTGCCTGCGCACGT
GCCTACGCCCATCCAGCCTACCTTTGGCGGTGCCACGCACTCGGCGTTTGGATTGAAAGCCACGGCTTCCGCCTT
CGGCGCTCCCGCCAGCTCACAGCCCGCCTTTGGCGGCTCCACTGCTGTCTTCTCCTTCCGTGAGCCACCAGCTC
CGGCTTTGGAGCCACCACCAGACCGCCAGCAGCGGGAGCAGCAGCTCGGTGTTTGGCAGCACAAACCATCACC
CTTACGTTTGGGGGTTCCGGCAGCCCCCGCTGGCAGTGGGAGCTTTGGGATCAACGTGGCCACCCCAAGGCTCCAG
CGCCACCACCGGAGCTTTAGCTTTGGAGCAGGACAGAGTGGGAGCACAGCCACCTCCACCCCTTTCAGGGGG
CTTAGGTCAGAACGCCCTGGGCACCACCGGCCAGAGCACACCGTTTGCTTCAACGTGGGCAGCACAACTGAGAG
CAAACCTGTGTTTGGAGGCACCGCCACCCCACTTTGGTCAGAACACCCCTGCGCCTGGAGTGGGCACATCGGG
CAGCAGCCTCTCCTTTGGGGCATCTTACGACCCGCCCAAGGCTTTGTTGGTGTGGACCGTTTCGGCAACACTTT

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FIGURE 2299B

TGCTCACCAGCAAGAACACAGCCCGAGGAAGGGACCCAATAACCTTTCAAATGCAAACCTGCTGCCTGCGGTGAG
GGCCCAGGGTCCTCCACGGAGAGGACAGGCATCTTCCTTTCCACCAGGAAGGAGTCAGCCTGGAGCCTCTGCTA
TGTGCAAGGCGGTGTGCAAGCACCGGCTGCGGCTCTTTGCTGTCTCTTCTTTCTCTTTGGGGCTGGGCTGGGTGT
GCGTTCTGGTGTGCTGATGCTTTGGCCTGTGAGGCTGAGCTAGAGAAGTGTAGATGTTAGATGTGCCAGTACCATCC
TGCGCCTCCCAAGCATGCCCCCACTCACTCACGTGCGCATCTCGACCCGTTCAATTACAGCAACGAAGAAGCCAC
CGCTAAGCGTGGTCTTGGGGGAAGCCCGGAGGCAGTGCTCGGCACCCGGGAACGTGCTCAGGCCTCGGTGGGGCC
GGGCAGGCAGGGCGGGAGCTAGCCTGCAAGAGAAACAGCCCCAATGCTGGGTAAGAGAGCAGTTACCCCCATCCC
CCCCCTCCACGACCCTGGCGCCCCGCCCTGTACCTGAAGGCGCCCGGGTTCTGCTGCAGCGCATCTGGTACCATGT
CTTCATTCTCCTCCTGGCAGAGGGAGCACATGGAGTAGACGAGCCGCTGCAGGGAAGGGAAAGTGAGCGCGTGGC
ACAGGGCTCGCTGCTGGAACCCCTGCCAGGGCATGCAGACGCACCGGGCTAGGTGTCCCTGCCCCGGGATCCTCCA
GCTGTCTGCTCGGCATACCTAAGGAAAAGCGTGTCTCGGTTACACAGCTTCACAGGCTGCCTCAGTCTGAAATC
CTCGCTCCTGAAATCCTTGCCCTCACAGAGGAGAAGCTTTTGCTCCAGGGTCCCAAGCCCATTAAAGTGTGAGAACT
AAGACCAAAACAGATGACTCCAGGTCTAAGCTGCTGTGGACCTCCGAGTCCCTCAGCCACGCCTTCTCACCATCT
CACCCGAGCCACTGCAGGAAGGATCCAGCAGGACATAGTGGACCTCACGATAGCGCGGATCTAAGGGGGAGACCG
CCAGGAAGTCCTCCTCAGCCAGCTCACAGCAGGAGACGCCAACCCAGGCCAGCAGCGTGGCCATGGATGCCAGCC
GCITGGCATCCAGGTCAAAGGCAAAGATCTTCTAGGGCAGAGGGCAGAGCAGGGGTGAGCTGAGCATGCACGGA
GCAGCTAAGGGCTGTGACAGCTGACACAGACAACCAGAACATGCAGGTAAAGCAGGACACACAATATTGAAAC
GGCCTATATTTAAAGGGCCAGGGTCAGAGGTAAGTGGCCTGGGGTCTCTGCCCCAAGGGCTAAGGGATCCACAT
CICACACCTGCAGTGGGGAAAGCTTAGCTTGGGGCAAATACCGTGAAGTACTTTGGTACAGCAGGAAAGAGTTAA
GCGAAAGTCATCCTTTACGCCCTTTATTACCCACTGAAAGGCACAAAATCAAACCCCATGTCTCCTCCTCCTCCT
CCTGTGGCACTCACCTTTGGTTCTTCAGAAGAGCAGCCAAGTGACTGGTCTTATTGCCTGGGGCGGCACAGGCAT
CGATGACATGGGAGCCTGGCGGGGTCCAGCAGCATGGCTGGGAGACAGCTGGCCTGGCAGGCAGAGCACAGGGG
CCGGGTAAACAGAGACCCCAAGGCTAGGCCCTTCCCGTGCCTACACATTCTTCCCTTTTCTATTCTCTGCTTAC
CCTGTCTGTCAGAAATGAGGTGTCCGGCCCCGTACAGTGGGTGTTTCATGCAGATCTGTCTGGGCGGGAAACACCAG
CAGCTCCGGCATCAAGGAGTCCAGGAGAAAATGCTTCCCCTTGAGGGCTTGTAAGTCATCAAGGCTGCCAGGGAA
GAACCATTCAATTCATTTCTGAATTTCTCCCTGCCAGGCCCTATTTCAACGGTCCATTTCATGCAACAAATGTTAC
CACAGCTATGGAGAAATCAACAGGGTGATAAGGGAATCCGGGATCCGCAGTTGAGGGAATGGGTTGTCAAGCCAG
ACTGATGGGTGAGGAGCCCCCTCTACTGTTTACCAGCAGTGGGAGCCTGGGCAAGTGATTCAATCTCAAGCCCCA
CTGGCATCTCTGTAAATAGTAGGTGTGAGGATTCAATGAGCCAATATATCCAAGATACTTACGTGCCACAATTT
AATAAATGTTAGCTATTCTGTTGAAGCATAACCTTGAGAGAAAGTTACTTTACAGGGGGTGAGGAGTGGGGAA
GTGAGAGCTGAGCTCATTCTTGATGGATGAGGAGTTAGTCATGTGAGGCGCTTAGGTTAAACTACATTCACTAT
AACTCAGTAAAGCAGTCCCGCCCACTCTCCGACCCATGCAGAAATAGGCCTAGAGAGTCACATGTCTCAGTTCAG
AAATCTATCGAAGTGGCAGAGCTGGAATTCAAACACAAGCAGCCGTTCTCTGCTATTCCACCCTGGTGTCCAAGC
AACATGGTAGGGCAGAAGGAAGAGGATCTTACAAAGAGTAAGGGAAAGGGAGAGGGGCAGAGGCTGCTTCTCAGA
GCCACCAAGGACAAAATAAGACAGGTGTGAGCCCACTGGAGGAGGCACGGGGCAGAGACCAGCCACTGTTGCTG
GCACGCTGGTGCACGTAGCACTGTGGCAGATGGACCTGGAGAGGAAGCAGGAGGGACAGCACAAATGGAGCCAAGA
AAGGACTTAGCATGGCCGGGCGGGTGGTTTCATGCCTGTAATCCCAGCATTTTGGGAGGCCAAGGTGGGCAGATC
ACCTGAGGTGAGGAGTTTGGAGACAGCCTGGCCAACATGGAGAAATCCCGTCTCTACTAAAAATACAAAATTAGC
CAGGCATGGTGTGCTGCATGCCTGCAATCCTGTAGGGAAAAGAAAGAGAGATCAGACTGTTACTGTGTCTGTGTAGA
AAGGGAAGACATAAGAAATTCCATTTTGACCTGTACCTTGAACAATTGGTTGGCTGAGATGCTGTTAATTTGTGA
CTTTGCCCCAAATTTGAGCTCACAAAACATGTGTTGTATGGAATCAAGGTTTAAAGGATCTAGGGCTGTGCAGG
ACATGCCTTGTTAATAAACGTTTACAAGC

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FIGURE 2300A

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACACGCCAGAACGTGCATACTGGGCAC
CCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTTGTCAACCGCCTGCCTCTGTCTAGCAACGCAGTGCTCTG
CTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTGAAGGACTCTCTGAGATA
CAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAATCCCAGGTTCCCAGGCAACCTGCAGATGAGTGA
CCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACTTTTTCCAGTTAACAGTGGAGATGTTTGACTACCT
GGAGTGTGAACCTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGC
AGGGCAGTGGCGCCTCGCCCCGCTGATCCAGGTCACTTGGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
TCTCTTCAAACCTCCACTCCTGCCTCCCAGCTGACACCCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTAC
AAAGTTGAAAGATCTGTTCTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTGAGATCCCCCAGCTGCC
TGAGAACCCACCCAACCTTCCCTGCGAGCCTCAGCCCTGTCAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGA
GGCCTCATCCCCCGACAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAAATTT
ATTTGACAACAAGTTTGATGACATCTTTGGCAGTTCATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAAATGG
TGTGAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTAGA
AAACATGAAGACTGAGAGCCAGCGGGTTGTGCTGCAGCTGAAGGGCCACGTGAGCGAGCTGGAAGCAGATCTGGC
CGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAATTCCTGCGGGCAGAACTGGACGAGCTCAGGAG
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCG
ATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTGAGAACCACGCTGACCTGGTGCGGAAGAATGCAGAGGT
GACCAACAGGTGTCCATGGCCAGACAAGCCAGGTAGATTGGAACGAGAGAAAAAGAGCTGGAGGATTTCGTT
GGAGCGCATCAGTGACCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAAC
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACCTTCTGCCAGTCAGAAGCAAACTGGGC
AGCCGAGTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGGAATTATC
TGCTCTTCGGAAGAAGTGCAGGACACTCAGCTCAAACCTGGCCAGCACAGAGGAATCTATGTGCCAGCTTGCCAA
AGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACCAGCT
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTG
CATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCCAGAAGACATCAGTGGACTTCTCCATTCCAT
AACCCTGCTGGCCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCC
TGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAAGA
GGGAAGCCTTGAGAATGCCGACAGCACAGCCATGAGGAACCTGCCTGAGCAAGATCAAGGCCATCGGCGAGGAGCT
CCTGCCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGACAAGGAGATGGCGGCCACTTCAGC
TGCTATTGAAACTGCCACGGCCAGAATAGAGGAGATGCTCAGCAAATCCCAGCAGGAGACACAGGAGTCAAATT
GGAGGTGAATGAAAGGATCCTTGGTTGCTGTACCAGCCTCATGCAAGCTATTGAGGTGCTCATCGTGGCCTCTAA
GGACCTCCAGAGAGAGATTGTGGAGAGCGGACAGGGGTACAGCATCCCCTAAAGAGTTTTATGCCAAGAACTCTCG
ATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTCATGGTGGATGCAGCTGATCT
GGTGGTACAAGGCAGAGGGAAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCCAGCT
TGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCCAGCTGCAGCAGGCCTCTCGGGGAGT
GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCATTTCCGGCAAATCACAGATCGAAGAGACAGACAACATGGA
CTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTTAGGGTGCTAGAGCTAGAAAA
TGAATTGCAGAAGGAGCGTCAAAAACCTGGGAGAGCTTCGGAAAAAGCACTACGAGCTTGCTGGTGTGCTGAGGG
CTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAAGAAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA
CACCCCATATGTCAGTGTAATCCTTGTTACCTATCTCGTGTGTGTTATTTCCCCAGCCACAGGCCAAATCCTTG
GAGTCCAGGGGCAGCCACACCACTGCCATTACCCAGTGCCGAGGACATGCATGACACTTCCAAAGACTCCCTCC
ATAGCGACACCCTTTCTGTTTGGACCATGGTCATCTCTGTTCTTTTCCCGCCTCCCTAGTTAGCATCCAGGCTG
GCCAGTGCTGCCCATGAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACCA
ACATCCAGTCCCTGCTGACTATTTGACCCCCACAACAATGGGTATCCTTAATAGAGGAGCTGCTTGTGTTTGTG
ACAGCTTGGAAGGGAAGATCTTATGCCTTTTCTTTTCTGTTTCTTCTCAGTCTTTTTCAGTTTTCATATTTGCA
CAAACCTGTGAGCATCAGAGGGCTGATGGATTCCAAACCAGGACACTACCCTGAGATCTGCACAGTCAGAAGGAC
GGCAGGAGTGTCTGGCTGTGAATGCCAAGCCATTCTCCCCCTCTTGGGCAGTGCCATGGATTTCCACTGCTT

2503/6881
FIGURE 2300B

CTTATGGTGGTTGGTTGGGTTTTTGGTTTTGTTTTTTTTTTAAGTTTCACTCACATAGCCAACTCTCCCAAAG
GGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCAACTGTGGTAGCTCCAGCGATGGTGCTGCCCAGGCCTCTC
GGTGCTCCATCTCCGCCTCCACACTGACCAAGTGCTGGCCCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCTGC
TGAGTGACAGCTTTCCTCAAAAAGCAGAAGGAGAGTGAGTGCCTTTCCCTCCTAAAGCTGAATCCCGGCGGAAAG
CCTCTGTCCGCCTTTACAAGGGAGAAGACAACAGAAAGAGGGACAAGAGGGTTCACACAGCCCAGTTCCCGTGAC
GAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGATCAACAACACTACTTCCCTGCCGAATGAAC
TGTCGGTGAATGGTCTCTGTCAAGCGGGCCGTCTCCCTTGGCCCAGAGACGGAGTGTGGGAGTGATTCCCAACTC
CTTCTGTCAGACGCTGCTGCTTGGCATCCTCTTGAATAGGAAGATCGTTCACCTTCTACGCAATTGACAAACCCG
GAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCCTATACTTGGTTTGCTACCCTTAGTATTTATTACTAAC
CTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATCAGAACTTCAGGTGTGACTCTAGCAAGGCTC
ATCTTTCTGCCCCGCTACATCAGCCTTCAAGAATCAGAAGAAAGGCCAAGGTGCTGGACTGTTACTGACTTGGAT
CCCAAAGCAAGGAGATCATTGGAGCTCTTGGGTGAGAGAAATGAGAAAGGACAGAGCCAGCGGCTCCAACCTCC
TTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACATGAACAGCTTGCCAG
GGATGGGCAGCCCAACAGCACTTTTCTCTTCTAGATGGACCCAGCATTTAAGTGACCTTCTGATCTTGAAAA
ACAGCGTCTTCTTCTTTATCTATAGCAACTCATTGGTGGTAGCCATCAAGCACTTCCCAGGATCTGCTCCAACA
GAATATTGCTAGGTTTTGCTACATGACGGGTGTGAGACTTCTGTTTGATCACTGTGAACCAACCCCCATCTCCC
TAGCCACCCCCCTCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAACTCTCTCCAGGACC
TCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGCTAAGGAAGTATCAGCACTAGAAATTGGGCAGTCTT
AATGTTGAATGCTGCTTTCTGCTTAGTATTTTTTTGATTCAAGGCTCAGAAGGAATGGTGCGTGGCTTCCCTGTC
CCAGTTGTGGCAACTAAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTTCCAAAAGTGGCTAGTCCCTCACTT
CTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGTGGCTCACGCCTGTAA
TCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGTCCAACATGGT
GAAACCCCCATCTCTACTAAAAATACCAAAAATTAGCCGAGCGTAGTGACGGGTGCCCGTAATCCCAGCTACTCA
GGAGGCTGAGACAGGAGAATCACCTGAACCCAGAGGCAGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACTC
CAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAAAAATTACAAATGGGGCAACAGTCTAGTGTA
ATGGATCAAATTAAGATTCTCTGCCCAGCCGGGCACAGTGGCGCATGCCTGTAATCCCAGAACTTTGGGAGGCCA
AGACGGGATGATTGCTTGAGCTCAGGAGTTTGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAAA
TTCAAAAACAAAATTAGCCGGGCATGATGGTGCATGCCTGTAGTCTCAGCTAGTTGGGGAGCTAAGGTGGGAGAA
TTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCCTCCGGCCTGGGTGACAGAGTG
AGACCCCTGTCTCAAAAAAAAAAAGATTCTGTGTGACAGAGCCAGCCAGGAGTTTGAGGCTGCAATGAGCCATGAT
TTCCCACTGCACTCCAGCCTGAGTGACAGAGCGAGACTCCATCTCTTTAAAAACAAACAAAAAATTATCTGAATG
ATCCTGTCTCTAAAAAGAAGCCACAGAAATGTTTAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGAA
AGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTCAGATGTCACATAATTACTTTC
GTAATAGCTCAGATTAGAATGGCTACCCCATCTCTAGACAAAATCAAATTGTCCTATTGTGACTCTTCTAAAAA
TGAAGATGAAGAGCTATTTAATGACACACCTTGATTAAACGGGAATCACATCTTAAAGCTAAAAATGAACCTG
CAAGCCTTCTAAATGAGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAATGGGTGATGACAAGATG
GGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAACAGCTGCATCTGTTACTTAAGTTTGTAAAG
ACAGTGCCCTGAGACCTCTAGAGAAAAGATGTTTGTGTACATAAGAGAAAGAGGCCAGACATGGTGTCTCACAGC
TTAATCCCAGCACTTTGGGAGGCAGGGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCAAAC
ATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTGGCAGGCGCCTATAATCCCAGCTAC
TGGGGAGGCTGAGGCAGGAGAATC

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FIGURE 2301

ATGGGGCGGGGCCTCTGGGAGGCGTGGCCTCCGGCCGGCTCCTCTGCTGTTGCCAAGGGAAACTGCCGCGAGGAG
GCGGAAGGAGCAGAGGACCGGCAGCCGGCGTTCGAGGCGGGGCGCGGGAACGACGGCGGCCATGGCGGCCTCGGGG
CCCGGGTGTCGCAGCTGGTGCTTGTGTCCCGAGGTGCCATCCGCCACCTTCTTCACTGCGCTGCTCTCGCTGCTG
GTTTCCGGGCCTCGCCTGTTCTGCTGTCAGCAGCCCCCTGGCGCCCTCGGGCCTCACGCTGAAGTCCGAGGCCCTT
CGCAACTGGCAAGTTTACAGGCTGGTAACCTACATCTTTGTCTACGAGAATCCCATCTCCCTGCTCTGCGGCGCT
ATCATCATCTGGCGCTTTGCTGGCAATTTTCGAGAGAACCGTGGGCACCGTCCGCCACTGCTTCTTACCGTGATC
TTCGCCATCTTCTCCGCTATCATCTTCCTGTTCATTCGAGGCTGTGTCTACTGTCAAAGCTGGGGGAAGTGGAG
GATGCCAGAGGTTTACCCCAAGTGGCCTTTGCCATGCTGGGAGTCACCACCGTCCGTTCTCGGATGAGGCGGGCC
CTGGTGTTTGGCATGGTTGTGCCCTCAGTCCTGGTTCCGTGGCTCCTGCTGGGTGCCTCGTGGCTCATTCCCCAG
ACCTCTTTCCTCAGTAATGTCTGCGGGCTGTCCATCGGGCTGGCCTATGGCCTCACCTACTGCTATTCCATCGAC
CTCTCAGAGCGAGTGGCACTGAAGCTCGATCAGACCTTCCCCTTCAGCCTGATGAGGAGGATATCCGTGTTCAAG
TACGTCTCAGGGTCTTCAGCCGAGAGGAGGGCAGCCAGAGCCGGAACCTGAACCCGGTGCCTGGCTCCTACCCC
ACACAGAGCTGCCACCCTCACCTGTCCCCAAGCCACCCTGTGTCCCAGACGCAGCACGCCAGTGGTCAGAAGCTG
GCCTCCTGGCCCTCCTGCACCCCGGGCACATGCCACCTTGCCTCCGTACCAGCCTGCCTCCGGCCTGTGCTAT
GTGCAGAACCACCTTTGGTCCAAACCCACCTCCTCCAGTGTCTACCCAGCTTCTGCGGGCACCTCCCTGGGCATC
CAGCCCCCAGCCTGTGAACAGCCCTGGCACGGTGTATTCTGGGGCCTTGGGCACACCAGGGGCTGCAGGCTCC
AAGGAGTCCTCCAGGGTCCCCATGCCCTGAGAGAATTTCTAGGGAAGTCATCTCACTTGGCCTTCTGAAGGTCCT
CCCTAAGAGTCTCCTGACAAAAGTTACTTATTGA

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FIGURE 2302

GTTTCATGATCAACATGGGAGACTCCACGTTGGACACCAGCTCCACCGTGTCCGAGGCGGTGGCCGAAGAAGTAT
CTCTTTTTCAGCATGACGGACATGATTCTGTTTTTCGCTCATCGTGGGTCTCCTAACCTACTGGTTCTCTTCAGAA
AGAAAAAAGAAGAAGTCCCCGAGTTCACCAAAATTCAGACATTGACCTCCTCTGTCTCAGAGAGAGCAGCTTTGTGG
AAAAGATGAAGAAAACGGGGAGGAACATCATCGTGTCTACGGCTCCCAGACGGGGACTGCAGAGGAGTTTGCCA
ACCGCTGTCCAAGGACGCCCACCGCTACGGGATGCGAGGCATGTCTCAGCGGACCCTGAGGAGTATGACCTGGCCG
ACCTGAGCAGCCTGCCAGAGATCGACAACGCCCTGGTGGTTTTCTGCATGGCCACCTACGGTGAGGGAGACCCCA
CCGACAATGCCCAGGACTTCTACGACTGGCTGCAGGAGACAGACGTGGATCTCTCTGGGGTCAAGTTTCGCGGTGT
TTGGTCTTGGGAACAAGACCTACGAGCACTTCAATGCCATGGGCAAGTACGTGGACAAGCGGCTGGAGCAGCTCG
GCGCCAGCGCATCTTTGAGCTGGGGTTGGGCGACGACGATGGGAAGTGGAGGAGGACTTCATCACCTGGCGAG
AGCAGTTCTGGCCGGCCGTGTGTGAACACTTTGGGGTGGGAAGCCACTGGCGAGGAGTCCAGCATTGCGCAGTACG
AGCTTGTGGTCCACACCGACATAGATGCGGCCAAGGTGTACATGGGGGAGATGGGCCGGCTGAAGAGCTACGAGA
ACCAGAAGCCCCCTTTGATGCCAAGAATCCGTTCTGGCTGCAGTACCACCAACCGGAAGCTGAACCAGGGAA
CCGAGCGCCACCTCATGCACCTGGAATTGGACATCTCGGACTCCAAATCAGGTATGAATCTGGGGACCACGTGG
CTGTGTACCCAGCCAACGACTCTGCTCTCGTCAACCAGCTGGGCAAAATCCTGGGTGCCGACCTGGACGTCGTCA
TGTCCTGAACAACCTGGATGAGGAGTCCAACAAGAAGCACCCATTCCCGTGCCCTACGTCTACCGCACGGCCC
TCACCTACTACCTGGACATCACCAACCCGCGCGGTACCAACGTGCTGTACGAGCTGGCGCAGTACGCTTCGGAGC
CCTCGGAGCAGGAGCTGCTGCGCAAGATGGCCTCCTCCTCCGGCGAGGGCAAGGAGCTGTACCTGAGCTGGGTGG
TGGAGGCCCGGAGGCACATCCTGGCCATCCTGCAGGACTGCCCCGTCCCTGCGGCCCCCATCGACCACCTGTGTG
AGCTGCTGCCGCGCCTGCAGGCCCCGCTACTACTCCATCGCCTCATCCTCCAAGGTCCACCCCCAACTCTGTGCACA
TCTGTGCGGTGGTTGTGGAGTACGAGACCAAGGCTGGCCGCATCAACAAGGGCGTGGCCACCAACTGGCTGCGGG
CCAAGGAGCCTGCCGGGGAGAACGGCGGCCGTGCGCTGGTGCCCATGTTTCGTGCGCAAGTCCCAGTTCCGCTGC
CCTTCAAGGCCACCACGCCTGTCTCATGTTGGGCCCCGGCACCGGGGTGGCACCCCTTCATAGGCTTCATCCAGG
AGCGGGCCTGGCTGCGACAGCAGGGCAAGGAGGTGGGGGAGACGCTGCTGTACTACGGCTGCCGCGCCTCGGATG
AGGACTACCTGTACCGGGAGGAGCTGGCGCAGTTCCACAGGGACGGTGCCTCACCCAGCTCAACGTGGCCTTCT
CCCGGGAGCAGTCCCACAAGGTCTACGTCCAGCACCTGCTAAAGCAAGACCGAGAGCACCTGTGGAAGTTGATCG
AAGGCGGTGCCCACATCTACGTCTGTGGGGATGCACGGAACATGGCCAGGGATGTGCAGAACACCTTCTACGACA
TCGTGGCTGAGCTCGGGGCCATGGAGCACGCGCAGGCGGTGGACTACATCAAGAACTGATGACCAAGGGCCGCT
ACTCCCTGGACGTGTGGAGCTAGGGGCCTGCCTGCCCCACCCACCCACAGACTCCGGCCTGTAATCAGCTCTCC
TGGCTCCCTCCCGTAGTCTCCTGGGTGTGTTTGGCTTGGCCTTGGCATGGGCGCAGGCCCAGTGACAAAGACTCC
TCTGGGCCCTGGGGTGCATCCTCCTCAGCCCCAGGCCAGGTGAGGTCCACCGGCCCTGGCAGCACAGCCCAGGG
CCTGCATGGGGGCACCGGGCTCCATGCCTCTGGAGGCCTCTGGCCCTCGGTGGCTGCACAGAAGGGCTCTTTCTC
TCTGCTGAGCTGGGCCAGCCCCCTCCACGTGATTTCCAGTGAGTGAAATAATTTAAATAACCTCTGGCCCTTG
GAATAAAGTTCTGTTTTCTGT

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FIGURE 2303

MTDMILFSLIVGLLLTYWFLFRKKKEEVPEFTKIQTLTSSVRESSFVEKMKKTGRNIIVFYGSQTGTAEFANRLS
KDAHRYGMRGMSADPEEYDLADLSSLPEIDNALVVFCMATYGEDPTDNAQDFYDWLQETDVDLSGVKFAVFGLG
NKTYEHFNAMGKYVDKRLEQLGAQRIFELGLGDDDGNNLEEDFITWREQFWPAVCEHFGVEATGEESSIRQYELVV
HTDIDAAKVYMGEMGRKLSYENQKPPFDAKNPFLAAVTTNRKLNQGTERHLMHLELDISDSKIRYESGDHVAVYP
ANDSALVNQLGKILGADLDVMSLNNLDEESNKKHPFPCPTSYRTALTYLDITNPPRTNVLYELAQYASEPSEQ
ELLRKMASSSGEGKELYLSWVVEARRHILAILQDCPSLRPPIDHLCELLPRLQARYYSIASSSKVHPNSVHICAV
VVEYETKAGRINKGVATNWLRAKEPAGENGGRALVPMFVRKSQFRLPFKATTPVIMVGPGTGVAPFIGFIQERAW
LRQQGKEVGETLLYYGCRSDEDYLYREELAQFHRDGALTQLNVAFSREQSHKVYVQHLLKQDREHLWKLI EGGA
HIYVCGDARNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTKGRYSLDVWS

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FIGURE 2304

GAGGAGCCTCGGGTGGGCCGGGGTTGCTGCGCCGTCTCCACTACTGGCTACTGGCGCTGCAGCCATGCAGCCCC
CGCCCCCGGGCCCGCTGGGCGACTGCCTGCGGGACTGGGAGGATCTACAGCAGGACTTCCAGAACATCCAGGAGA
CCCATCGGCTCTACCGCCTGAAGCTGGAGGAGCTGACCAAACCTTCAGAACAAATTGCACCAGCTCCATCACGCGGC
AGAAGAAGCGGCTCCAGGAGCTGGCCCTCGCCCTGAAGAAATGCAAACCCTCCCTCCCAGCAGAGGCCGAGGGGG
CCGCACAGGAGCTGGAGAACCAGATGAAAGAGCGCCAAGGCCTCTTCTTTGACATGGAGGCCTATTTGCCTAAGA
AGAATGGATTGTACCTGAGCCTGGTTCTGGGGAACGTCAACGTCACGCTCCTGAGCAAGCAGGCTAAGTTTGCCT
ACAAGGACGAGTATGAGAAGTTCAAGCTCTACCTCACCATCATCCTCATCCTCATCTCCTTCACTTGCCGCTTCC
TGCTCAACTCCAGGTTGACAGATGCTGCCTTCAACTTCCTGCTGGTCTGGTACTACTGCACCCTGACCATCCGGG
AGAGCATCCTCATCAACAACGGCTCCCGGATCAAAGGCTGGTGGGTGTTCCATCACTACGTGTCCACCTTCCTGT
CGGGAGTCATGCTGACGTGGCCCCGACGGTCTCATGTACCAGAAATTCCGGAACCAATTCCTCTCCTTTTCCATGT
ACCAGAGCTTCGTGCAGTTTCTCCAGTACTACTACCAGAGCGGCTGCCTCTACCGCCTGCGGGCGCTGGGCGAGC
GGCACACCATGGACCTCACTGTGGAGGGCTTCCAGTCCTGGATGTGGCGGGGCCTCACCTTCCTGCTGCCTTTTC
TTTTCTTTGGACACTTCTGGCAGCTTTTTTAACGCGCTGACGTTGTTCAACCTGGCCCAGGACCCTCAGTGCAAGG
AGTGGCAGGTGCTTATGTGCGGCTTTCCCTTCCTCCTCCTTTTCTCGGCAATTTCTTCACCACCCTGAGGGTTG
TGCACCACAAGTTTCACAGTCAGCGGCACGGGAGCAAGAAGGATTGAGGCTGGGCCTTCCCCTGCCGGCCAGAG
GGGCTTCTGTCTGTGTGTGTGGGAGGGGATGGGAGGCGCCCTCGAGTGTGCGTGTATCAGGGGGTCTCTTCT
ATTCTCCCTTGGGTTTTATGGGCGCTGTGGGCCCTGAAGGAAGACCTGGGCCCAAGTGCCTCAATAAAGAGAGGC
CCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2305

MQPPPPGPLGDCLRDWEDLQQDFQNIQETHRLYRLKLEELTKLQNNCTSSITRQKKRLQELALALKKCKPSLP
AEGAAQELNQMKERQGLFFDMEAYLPKKNGLYLSVLGNVNVTLSSKQAKFAYKDEYEKFKLYLTIILILISFT
CRFLLNSRVTDAAFNLLVWYYCTLTIRE SILINNGSRIKGWWVFHHYVSTFLSGVMLTWPDGLMYQKFRNQFLS
FSMYQSFVQFLQYYYQSGCLYRLRALGERHTMDLTVEGFQSWMWRGLTFLLPFLFFGHFWQLFNALTFLNLAQDP
QCKEWQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD

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FIGURE 2306

GGCGCTGGGCAGTGTGGAGGTCGTTGGAGTCACTTCCGCGTCACCAGCTCCTGTGCCTGCCAGTCGGTGCCCCCTC
CCGCTCCAGCCATGCTCTCCGCCCTCGCCCGGCTGCCAGCGCTGCTCTCCGCCGCAGCTTCAGCACCTCGGCCC
AGAACAATGCTAAAGTAGCTGTGCTAGGGGCTCTGGAGGCATCGGGCAGCCACTTTCACTTCTCCTGAAGAACA
GCCCCTTGGTGAGCCGCCTGACCCTCTATGATATCGCGCACACACCCGGAGTGGCCGCAGATCTGAGCCACATCG
AGACCAAAGCCGCTGTGAAAGGCTACCTCGGACCTGAACAGCTGCCTGACTGCCTGAAAGGTTGTGATGTGGTAG
TTATTCCGGCTGGAGTCCCCAGAAAGCCAGGCATGACCCGGGACGACCTGTTCAACACCAATGCCACGATTGTGG
CCACCCTGACCCTGCCTGTGCCCAGCACTGCCCGGAAGCCATGATCTGCGTCATTGCCAATCCGGTTAATTCCA
CCATCCCCATCACAGCAGAAGTTTTCAAGAAGCATGGAGTGTACAACCCCAACAAAATCTTCGGCGTGACGACCC
TGGACATCGTCAGAGCCAACACCTTTGTTGCAGAGCTGAAGGGTTTGGATCCAGCTCGAGTCAACGTCCCTGTCA
TTGGTGGCCATGCTGGGAAGACCATCATCCCCCTGATCTCTCAGTGCACCCCCAAGGTGGACTTTCCCCAGGACC
AGCTGACAGCACTCACTGGGCGGATCCAGGAGCCGGCACGGAGGTGGTCAAGGCTAAAGCCGGAGCAGGCTCTG
CCACCCTCTCCATGGCGTATGCCGGCGCCCGCTTTGTCTTCTCCCTTGTGGATGCAATGAATGGAAGGAAGGTG
TTGTGGAATGTTTCCTTCGTTAAGTCACAGGAAACGGAATGTACCTACTTCTCCACACCGCTGCTGCTTGGGAAAA
AGGGCATCGAGAAGAACCTGGGCATCGGCAAAGTCTCCTCTTTTGAGGAGAAGATGATCTCGGATGCCATCCCCG
AGCTGAAGGCCTCCATCAAGAAGGGGGAAGATTTCTGTGAAGACCCTGAAGTGAGCCGCTGTGACGGGTGGCCAGT
TTCCTTAATTTATGAAGGCATCATGTCAGTCAAAGCCGTTGCAGATAAACTTTGTATTTTAATTTGCTTTGGTG
ATGATTACTGTATTGACATCATCATGCCTTCCAAATTGTGGGTGGCTCTGTGGGCGCATCAATAAAAGCCGTCCT
TGATTTTATTTTCAAGGTCCTTCTGTAAAAA

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FIGURE 2307

MLSALARPASAAALRRSFSTSAQNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSHIETKA
AVKGYLGPEQLPDCLKGCDVVVIPAGVPRKPGMTRDDLFTNATIVATLTAAQAHCPEAMICVIANPVNSTIPI
TAEVFKKHGVNPNKIFGVTTLDIVRANTFVAELKGLDPARVNVPEVIGGHAGKTIIP LISQCTPKVDFFPQDQLTA
LTGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVFSLV DAMNGKEGVVECSFVKSQETECTYFSTPLLLGKKGIE
KNLGIGKVSSFEEKMISDAIPELKASIKKGEDFVKTLK

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FIGURE 2308

CTCAAACACCGCCTGCTAAAAATACCCGACTGGAGGAGCATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTT
CTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCA
GCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGG
AGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGA
GCCCCGCAGTGGCCGCGCCCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGC
ACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGG
ATGGCGTGGTGGAGATCACCGGCAAGCACGAGGAGCGGCAGGACGAGCATGGCTACATCTCCCGGTGCTTCACGC
GGAAATACACGCTGCCCCCGGTGTGGACCCACCCAAGTTTCTCCTCCCTGTCCCCTGAGGGCACACTGACCG
TGGAGGCCCCCATGCCCAAGCTAGCCACGCAGTCCAACGAGATCACCATCCCAGTCACCTTCGAGTCGCGGGCCC
AGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTGCCGCCAAGTAAAGCCTTAGCCTGGATGCCACCCCT
GCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTGTTCTTTTGATACATTTATCTTCTGTTTTCTCAAAT
AAAGTTCAAAGCAACCACCTGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2309

MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAAPAYSR
ALSRQLSSGVSEIRHTADRWVRVSLDVNHFAPELTVKTKDGVVEITGKHEERQDEHGYSRCFTRKYTLPPGVDP
TQVSSSLSPGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK

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FIGURE 2310

ATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACTTTTCTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCG
AGCGCCGCGTCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCGACTGGTACCCGCATAGCCGCC
TCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTCGCAGTGGTTAGGCGGCAGCAGCTGGCCAG
GCTACGTGCGCCCCCTGCCCCCGCCGCCATCGAGAGCCCCGAGTGGCCGCGCCCCGCTACAGCCGCGCGCTCA
GCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGCGCGTGTCCCTGGATGTCAACC
ACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGGATGGCGTGGTGGAGATCACCGGTGAGCCCCCTGCTCCT
GCAGGGGAGAGGAGGAGGCTAGCAGGGCGGGCAGGGCCGGGGCGTGCGGTTGAAACGGGGGTCCCGGGGGCCTG
GGGAGTTAAACGTTGGCCCAGCACCGGGAAAAACAGGACTCCTGATTCCCTTGCTCAGGAATTGGGAGTGCGGGT
CGCTTCTAAGGGCGCTTTCTGCTCTGTAATCCCAGCGCTTTGGGAGGCCGAGACGGGAGGATCGCTTGAGGCCAG
GAGTTCAAGACTAGCCTGGGCAACATAGCGAGACGCGCCCCCGCCCCGACCCGCGCCATTAC

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FIGURE 2311

CAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCCCTTCTCGCTCCTGCGGGGCCCCAGCTGGGACCCCTTCCGCG
ACTGGTACCCGCATAGCCGCCTCTTCGACCAGGCCTTCGGGCTGCCCCGGCTGCCGGAGGAGTGGTCGCAGTGGT
TAGGCGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCCCGCCGCGCATCGAGAGCCCCGCAGTGGCCGCGC
CCGCCTACAGCCGCGCGCTCAGCCGGCAACTCAGCAGCGGGGTCTCGGAGATCCGGCACACTGCGGACCGCTGGC
GCGTGTCCCTGGATGTCAACCACTTCGCCCCGGACGAGCTGACGGTCAAGACCAAGCTAGCCACGCAGTCCAACG
AGATCACCATCCCAGTCACCTTCGAGTCGCGGGCCCAGCTTGGGGGCCCAGAAGCTGCAAAATCCGATGAGACTG
CCGCCAAGTAAAGCCTTAGCCCGGATGCCACCCCTGCTGCCGCCACTGGCTGTGCCTCCCCCGCCACCTGTGTG
TTCTTTTGATACATTTATCTTCTGTTTTTCTCAAATAAAGTTCAAAGCAACC

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FIGURE 2312A

GGACTGCGAAAGGAGCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGCGTCTGGCCAGCCGC
GAGCTCTAAGGGTCGGCCCCCGCCGGTCCGCCCCCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGG
GGCCTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTGATGCGAGCCTGCAGGGCGGCGCGCCGGGGCA
GCCGGAGCCGCGCGCCGCGGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCCGCCTCCGGCCACTTTCCATTTC
ACTCCGAGGTGCTTGATTGAGCGACGCGGAGAAGAGCTCCGGGTGCCGCGGCACTGCAGCGCTGAGATTCCTTTA
CAAAGAAACTCAGAGGACCGGGAAGAAAGAATTTACCTTTGCGACGTGCTAGAAAATAAGGTGCTCTGGGAAAA
GGACTGGAGACACAAGCGCATCCAACCCCGGTAGCAAACCTGATGACTTTTCCGTGCTGATTTCTTTCAACCTCGG
TATTTTCCCTTGGAATTAACCTTGCATATCTGAAGAAATGGCATTCCGGACAATTTGCGTGTTGGTTGGAGTATT
TATTTGTTCTATCTGTGTGAAAGGATCTTCCAGCCCCAAGCAAGAGTTTATTTAACATTTGATGAACTTCGAGA
AACCAAGACCTCTGAATACTTCAGCCTTTCCACCATCCTTTAGACTACAGGATTTTATTAATGGATGAAGATCA
GGACCGGATATATGTGGGAAGCAAAGATCACATTCTTTCCCTGAATATTAACAATATAAGTCAAGAAGCTTTGAG
TGTTTTCTGGCCAGCATCTACAATCAAAGTTGAAGAATGCAAAATGGCTGGCAAAGATCCACACACGGCTGTGG
GAACTTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGCTGTGGGAGTGGCGCTTTTCAGTCTGT
CTGTACTTACTTGAACAGAGGGAGGAGATCAGAGGACCAAGTTTTCATGATTGACTCCAAGTGTGAATCTGGAAA
AGGACGCTGCTCTTTCAACCCCAACGTGAACACGGTGTCTGTTATGATCAATGAGGAGCTTTTCTCTGGAATGTA
TATAGATTTTCATGGGGACAGATGCTGCTATTTTTTCGAAGTTTAACCAAGAGGAATGCGGTGAGAACTGATCAACA
TAATTCAAAATGGCTAAGTGAACCTATGTTTGTAGATGCACATGTCAATCCAGATGGTACTGATCCAAATGATGC
TAAGGTGACTTCTTCTTCAAAGAAAACTGACTGACAATAACAGGAGCACGAAACAGATTTCATTCATGATTGC
TCGAATATGCTCTAATGACACTGGTGGACTGCGTAGCCTTGTCACAAAGTGGACCCTTTCTTAAAGGCGAGGCT
GGTGTGCTCGGTAACAGATGAAGACGGCCAGAAACACACTTTGATGAATTAGAGGATGTGTTTTCTGCTGGAAAC
TGATAACCCGAGGACAACACTAGTGTATGGCATTTTTTACAACATCAAGCTCAGTTTTCAAAGGATCAGCCGTGTG
TGTGTATCATTTATCTGATATACAGACTGTGTTTAATGGGCCTTTTGCCACAAAGAAGGGCCCAATCATCAGCT
GATTTCTATCAGGGCAGAATTCCATATCCTCGCCCTGGAACCTTGTCAGGAGGAGCATTTACACCCAATATGCG
AACCACCAAGGAGTTCCAGATGATGTTGTCACTTTTTATTTCGGAACCATCCTCTCATGTACAATTCATCTACCC
AATCCACAAAAGGCCTTTGATTGTTGCTATTGGCACTGACTACAAGTATACAAAGATAGCTGTGGATCGAGTGAA
CGCTGCTGATGGGAGATACCATGTCCTGTTTCTCGGAACAGATCGGGGTACTGTGCAAAAAGTGTTGTTCTTCC
TACTAACAACTCTGTCTAGTGGCGAGCTCATTCTGGAGGAGCTGGAAGTCTTTAAGAATCATGCTCCTATAACAAC
AATGAAAATTTTCATCTAAAAAGCAACAGTTGTATGTGAGTTCCAATGAAGGGGTTTCCAGGTATCTCTGCACCG
CTGCCACATCTATGGTACAGCCTGTGCTGACTGCTGCCTGGCGCGGACCCTTATTGCGCCTGGGATGGCCATTTC
CTGTTCCAGATTCTACCCAACCTGGGAAACGGAGGAGCCGAAGACAAGATGTGAGACATGGAACCCACTGACTCA
ATGCAGAGGATTTAATCTAAAAGCATAACAGAAATGCAGCTGAAATGTCCAGTATGGAGTAAAAATAACACCAC
TTTTCTGGAGTGTGCCCCCAAGTCTCCGCAGGCATCTATCAAGTGGCTGTTACAGAAAGACAAAGACAGGAGGAA
AGAGGTTAAGCTGAATGAACGAATAATAGCCACTTCACAGGGACTCCTGATCCGCTCTGTTTCAGGGTTCTGACCA
AGGACTTTATCACTGCATTGCTACAGAAAATAGTTTCAAGCAGACCATAGCCAAGATCAACTTCAAAGTTTATA
TTCAGAAATGGTGGCTGTTGTGACGGACAAATGGTCCCCATGGACCTGGGCCAGCTCTGTGAGGGCTTTACCCCTT
CCACCCGAAGGACATCATGGGGGCATTTCAGCCACTCAGAAATGCAGATGATTAACCAATATTGCAAAGACACTCG
GCAGCAACATCAGCAGGGAGATGAATCACAGAAAATGAGAGGGGACTATGGCAAGTTAAAGGCCCTCATCAATAG
TCGGAAAAGTAGAAACAGGAGGAATCAGTTGCCAGAGTCATAATATTTTCTTATGTGGGTCTTATGCTTCCATTA
ACAAATGCTCTGTCTTCAATGATCAAATTTTGAGCAAAGAACTTGTGCTTTACCAAGGGGAATTACTGAAAAAG
GTGATTACTCCTGAAGTGAGTTTTACACGAACTGAAATGAGCATGCATTTTCTTGATGATAGTGAAGTACACTA
GACATGTCATGGTCTCATGGTGCATATAAATATATTTAACTTAACCCAGATTTTATTTATATCTTTATTACCTT
TTTCTTCAAAATCGATATGGTGGCTGCAAACTAGAATTGTTGCATCCCTCAATTGAATGAGGGCCATATCCCTG
TGGTATTCCTTTCTGCTTTGGGGCTTTAGAATTCTAATTGTGATGATTTTGTATATGAAAACAAGTTCCAAAT
CCACAGCTTTTACGTAGTAAAAGTCATAAATGCATATGACAGAATGGCTATCAAAGAAATAGAAAAGGAAGACA
GCATTTAAAGTTGTATAAAAACATGAGTTATTCATAAAGAGAAAATGATGAGTTTTTATGGTTCCAATGAAATAT
GTTGGGGTTTTTTTTAAGATTGTAAAAATAATCAGTTACTGGTATCTGTCACTGACCTTTGTTTCTTATTTCAGGA
AGATAAAAATCAGTAACCTACCCCATGAAGATATTTGGTGGGAGTTATATCAGTGAAGCAGTTTGGTTTATATTC
TTATGTTATCACCTTCCAAACAAAAGCACTTACTTTTTTTGGAAGTTATTTATTTTAGACTCAAAGAATATAATC

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FIGURE 2312B

TGGCACTACTCAGTTATTACTGTTTGTTCTCTTATTCCCTAGTCTGTGTGGCAAATTAAACAATATAAGAAGGAA
AAATTTGAAGTATTAGACTTCTAAATAAGGTGTGAAATCATCAAAAAGAAAAATCAAAGTAGAACTACTAATTT
TTAAGAGGAATTTATAACAAATATGGCTAGTTTTCAACTTCAGTACTCAAATTCAATGATTCTTCCTTTTATTA
AAACCAGTCTCAGATATCATACTGATTTTTAAGTCAACACTATATATTTTTATGATCTTTTCAGTGTGATGGCAAG
GTGCTTGTTATGTCTAGAAAGTAAGAAAACAATATGAGGAGACATTCTGTCTTTCAAAGGTAATGGTACATACG
TTCAGTGGTCTCTAAGTGTAAGTAGTAAATTTTTGTGATGAATAAAATAATTATCTCCTAATTGTATGTTAGAA
TAATTTTATTAGAATAATTTTCACTGAAATTATTTTTCTCCAAATAAAAAATTAGATGGAAAAATGTGAAAAAAAT
TATTCATGCTCTCATATATATTTTTAAAAACACTACTTTTTGCTTTTTTTATTTACCTTTTAAGACATTTTCATGCTT
CCAGGTAAAAACAGATATTGTACCATGTACCTAATCCAAATATCATATAAACATTTTATTTATAGTTAATAATCT
ATGATGAAGGTAATTTAAAGTAGATTATGGCCTTTTTAAGTATTGCAGTCTAAAACCTCAAAAACATAAATCATTG
TCAAAATTAATATGATTATTAATCAGAATATCAGAATATGATTCACTATTTAACTATGATAAATTATGATAATA
TATGAGGAGGCCCTCGCTATAGCAAAAATAGTTAAAATGCTGACATAACACCAAACCTTCATTTTTTAAAAAATCTG
TTGTTCCAAATGTGTATAATTTTTAAAGTAATTTCTAAAGCAGTTTATTATAATGGTTTGCCTGCTTAAAGGTAT
AATTAACTTCTTTTCTCTTCTACATTGACACACAGAAATGTGTCAATGTAAAGCCAAAACCATCTTCTGTGTTT
ATGGCCAATCTATTCTCAAAGTTAAAGTAAATTTGTTTCAGAGTCACAGTCCCTTTATTTACATAAGCCCAA
ACTGATAGACAGTAACGGTGTGTTAGTTTTATACTATATTTGTGCTATTTAATTCTTTCTATTTTCACAATTATTA
AATTGTGTACACTTTCATTACTTTTTAAAAATGTAGAAATTTCTTCATGAACATAACTCTGCTGAATGTAAAAGAAA
ATTTTTTTTCAAAAATGCTGTTAATGTATACTACTGGTGGTTGATTGGTTTTATTTTATGTAGCTTGACAATTCA
GTGACTTAATATCTATTTCCATTTGTATTGTACATAAAATTTCTAGAAATACACTTTTTTCCAAAGTGTAAAGTTT
GTGAATAGATTTTAGCATGATGAACTGTCATAATGGTGAATGTTCAATCTGTGTAAGAAAACAACTAAATGTA
GTTGTCACACTAAAATTTAATTGGATATTGATGAAATCATTGGCCTGGCAAATAAAACATGTTGAATTCCCC

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FIGURE 2313

CTTTCTGTCTTGATGACCTGTCTAGTGCTATAAATGAACACCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCG
TTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCCAACAGCTGAGGAAGCTCT
TCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGG
ACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGG
AGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAA
GAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCA
AAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCA
GTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGACGACCATGACTCTGTGGATAAGATTGTCATTTCAGAAAT
ACCATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCA
GCCAAAGAGGTCAAAGTGGTTCTGGAACTTTAGTGGTGGTTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTG
GTCATGGAGGAACTTCAGTGGTTCGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGTGGATATGGTGGCAGTGGGG
ATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACA
ACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCTATGGCGGTG
GAGGCAATACTTTGCAAAACCAAGGTGGCTATGGCAGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGAT
TTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATT
TGTGAATCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACGTGTTTTAGACACATACTCATG
TGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAGCTGTATAACAGGTTATTTTAATTTCTATTCTGCGGA
AAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGTTTTTTTTTGCACCCATGCTGTTGATTATTAAATGTAA
TAGTCTGATTGTGACACTGAATAAATGTCTTTTTT

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FIGURE 2314

MSKSESPKEPKQLRKLFIGGLSFETTNESLRSHFEQWGTLMDCVVMRDPNTKCSRGFGFVITYATVEEVDAAMNAR
PHKVDGRVVESKRAVSREDSQRPGAHLTVKKIFVGGIKEDTKEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKIVIQKYHTVNGHICEVRKALSKQEMASTSSSQRGQSGSGNFVVEATMILAITTISLQILDP

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FIGURE 2315

CCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGA
GTCTCCTAAAGAGCCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCT
GAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAG
GGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGA
TGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAA
AAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAGAGATTATTTTGAACAGTATGTGGA
AGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATG
AAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCTATGGCGGTGGAGGCAATACTTTGCAAACCAAGGTGGC
TATGGCAGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAG
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAAGAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCA
GGCCTAGCTG

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FIGURE 2316

AAGTCTCTCTTCTCCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCA
TTGGAGGGTTGAGCTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACT
GTGTGGTAATGAGAGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGG
TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCTGTGGATAAGATTGTCATTGAGAAATACC
ATACTGTGAATGGCCACATCTGTGAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCGAGTACTTCATCCAGCC
AAAGAGGTCAAAGTGTTCTGGAACTTTAGTGGTGGTTCGTGGAGGTGGTTTCAGTGGGAATGACAACTTTGGTC
ATGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGA
GGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCAATACTTTGCAAA

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FIGURE 2317

CCCTGCCGTCATGTCTAAGTCAGAGTCTCCTAAAGAGCCCAAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAG
CTTTGAAACAACCAATGAGAGTCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCATGGACTGTGTGGTAATGAG
AGATCCAAACACCAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCTAT
GAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAATCAAAGAGAGCTGTTTCAAGAGAAGATTCTCAAAG
ACCAGGTGCCCACTTAACGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACCAAAGAACATCACCTAAG
AGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGG
CTTTGCCTTTGTAACCTTTGACGACCATGACTCGGTGGCTTTGGTGGCAGCCGTGGTGCTGGTGGATATGGTGGC
AGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGC
AATTACAACAATCAGTCTTCAAATTTTAGACCCATGAAGG

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FIGURE 2318

ATGCCAAACTATGTCACCTTTACGGATACCAAACAATTGATTAGTGATACTCCAAATAATCAAGTTCCAATGAAC
CGTGCCAGCATGGCTTTTGATGCCAAATGTCTGACTGGATGCAGATTTGATGATGCCATTGTCCAGTTTGATATG
ACATATTGGCCTTTCACGGTGGTAAATGATGCTGGCAGGCCCAAGGTCCAAGTAGAGTATGAGAGAGACAAAAAG
CTGCTACCCATAGGAGGTGTCTTCTATGGTTCTGACAAAGATGAAGGAAATTGCAAAAGTCTACCTTGGGAAGAC
TGTTACCAATGCTGTGGTCACAGTGCCAGCTTACTTGAATGA

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FIGURE 2319A

GTAACAACCGTCACCCCTGGGTCCCGACTGCCACCTCCTCCTCCTCCCCCTCCCCCAACAACAACAACAAC
AACTCCAAGCACACCGGCCATAAGAGTGCGTGTGTCCCCAACATGACCGAACGAAGAAGGGACGAGCTCTCTGAA
GAGATCAACAACCTTAAGAGAGAAGGTTCATGAAGCAGTCGGAGGAGAACAACAACCTGCAGAGCCAGGTGCAGAAG
CTCACAGAGGAGAAACACCACCCCTTCGAGAGCAAGTGGAAACCCACCCCTGAGGATGAGGATGATGACATCGAGCTC
CGCGGTGCTGCAGCAGCTGCTGCCCCACCCCTCCAATAGAGGAAGAGTGCCCAAGACCTCCAGAGAAGTTC
GATGGCAACCCAGACATGCTGGCTCCTTTTCATGGCCAGTGCCAGATCTTCATGGAAAAGAGCACCAGGGATTTC
TCAGTTGATCGTGTCCGTGTCTGCTTCGTGACAAGCATGATGACCGGCCGTGCTGCCCGTTGGGCCTCAGCAAAG
CTGGAGCGCTCCCACTACCTGATGCACAACCTACCCAGCTTTTCATGATGGAAATGAAGCATGTCTTTGAAGACCCCT
CAGAGGCGAGAGGTTGCCAAACGCAAGATCAGACGCCTGCGCCAAGGCATGGGGTCTGTTCATCGACTACTCCAAT
GCTTTCCAGATGATTGCCCAGGACCTGGATTGGAACGAGCCTGCGCTGATTGACCAGTACCACGAGGGCCTCAGC
GACCACATTCAGGAGGAGCTCTCCACCTCGAGGTGCGCAAGTCGCTGTCTGCTCTGATTGGGCAGTGCATTAC
ATTGAGAGAAGGCTGGCCAGGGCTGCTGCAGCTCGCAAGCCACGCTCGCCACCCCGGGCGCTGGTGTTCCTCAC
ATTGCAAGCCACCACCAGGTAGATCCAACCGAGCCGGTGGGAGGTGCCCGCATGCGCCTGACGCAGGAAGAAAA
GAAAGACGCAGAAAGCTGAACCTGTGCCTCTACTGTGGAACAGGAGGTCACTACGCTGACAATTGTCTGCCAAG
GCCTCAAAGTCTTCGCCGGCGGGAAACTCCCCGGCCCCGCTGTAGAGGGACCTTCAGCGACCGGGCCAGAAATAA
TAAGGTCCCCACAAGATGATGCCTCATCTCCACACTTGCAAGTGATGCTCCAGATTCTCTCCGGGCAGACACA
CCCTGTTGCTCCGAGCCATGATCGATTCTGGTGCTTCTGGCAACTTCATTGATCACGAATATGTTGCTCAAAATG
GAATTCCTCTAAGAATCAAGGACTGGCCAATACTTGTGGAAGCAATTGATGGGCGCCCCATAGCATCGGGCCAG
TTGTCCACGAAACTCAGGACCTGATAGTTGACCTGGGAGATCACCGAGAGGTGCTGTCAATTTGATGTGACTCAGT
CTCCATTCTTCCCTGTCGCTCTAGGGGTTGCTGGCTGAGCACACATGATCCCAATATCACATGGAGCACTCGAT
CTATCGTCTTTGATTCTGAATACTGCCGCTACCACTGCCGGATGTATTCTCCAATACCACCATCGCTCCCACCAC
CAGCACCACAACCGCCACTCTATTATCCAGTAGATGGATACAGAGTTTACCAACCAGTGAGGTATTACTATGTCC
AGAATGTGTACTCTCCAGTAGATGAGCACGTCTACCCAGATCACCGCCTGGTTGACCCTCACATAGAAATGATAC
CTGGAGCACACAGTATTTCCAGTGGACATGTGTATTCACTGTCCGAACCTGAAATGGCAGCTCTTCGAGATTTTG
TGGCAAGAAATGTAAAAGATGGGCTAATTACTCCAACGATTGCACCTAATGGAGCCCAAGTTCTCCAGGTGAAGA
GGGGGTGGAAGTGAAGTTTCTTATGATTGCCGAGCTCCAAACAATTTTACTATCCAGAATCAGTATCCTCGCC
TATCTATTCCAAATTTAGAAGACCAAGCACACCTGGCAACGTACACTGAATTCGTACCTCAAATACCTGGATACC
AAACATACCCACATATGCCGCGTACCCGACCTACCCAGTAGGATTTCGCTGGTACCCAGTGGGACGAGACGGAC
AAGGAAGATCACTATATGTACCTGTGATGATCACTTGAATCCACACTGGTACCGCCAGCCTCCGGTACCACAGT
ACCCGCCGCCACAGCCGCCGCTCCACCACCACCACCGCCGCCGCTCCATCTTACAGTACCCTGTAAATACCTG
TCATGTCTTTCAGGATCTCTGCCCTCAAATTTTATTCCTGTTTCAGCTTCTCAATCAGTGACTGTGTGCTAAATTT
TAGGCTACTGTATCTTTCAGGCCACCTGAGGCACATCCTCTCTGAAACGGCTATGGAAGGTTAGGGCCACTCTGGA
CTGGCACACATCCTAAAGCACCAAAAGACCTTCAACATTTTCTGAGAGCAACAGAGTATTTGCCAATAAATGATC
TCTCATTTTTCCACCTTGACTGCCAATCTAACTAAAATAATTAATAAGTTTACTTTCCAGCCAGTCTTGGAAGTC
TGGGTTTTACCTGCCAAAACCTCCATCACCATCTAAATTATAGGCTGCCAAATTTGCTGTTTAAACATTTACAGAG
AAGCTGATACAAACGCAGGAAATGCTGATTTCTTTATGGAGGGGAGACGAGGAGGAGGAGGACATGACTTTTCT
TGCGGTTTCGGTACCCTCTTTTTAAATCACTGGAGGACTGAGGCCTTATTAAGGAAGCCAAAATTATCGGTGCAG
TGTGAAAGGCTTCCGTGATCCTCTCGCTGCACCTTAGAACTTCACCGTCTTCAAATCCATTTCCATGGTTC
TGTTAATTCTCAAGGAGCAGCAACTCGACTGGTTCTCCCAGGAGCAGGAAAAACCTTGTGACATGAAACATCTC
AGGCCTGAAAAGAAAGTGCTCTCTCAGATGGACTCTTGATGTTAAGACTATGTCTTACATCATGGTGCAAATC
ACATGTACCCAATGACTCCGGCTTTGACACAACACCTTACCATCATCATGCCATGATGGCTTCCACAAAGCATT
AACCTGGTAACCAAGAGATTACTGGTGGCTCCAGCGTTGTTAGATGTTTCATGAAATGTGACCACCTCTCAATCACC
TTTGAGGGCTAAAGAGTAGCACATCAAAGGACTCCAAAATCCCATACCCAACCTCTTAAGAGATTTGTCTGGTA
CTTCAGAAAGAAATTTTCATGAGTGTTCTTAATTGGCTGGAAAAGCACCAGCTGACGTTTTTGAAGAATCTATCCA
TGTGTCTGCTCCATATGCATCTGGGCATTTTCATCTTCAGTCCCCCTCATTAGACTGTAGCATTAGGATGTGTGGA
GAGAGGAGAAATGATTTAGCACCCAGATTCACACTCCTATGCCTGGAAGGGGGACATCTTTGAAGAAGAGGAATT
AGGGCTGTGGACACTGTCTTGAGGATGTGGACTTCCTTAGTGAGCTCCACATTACTTGATGGTAACCACTTCAA
AGGATCAGAATCCACGTAATGAAAAGGTCCCTCTAGAGGATGGAGCTGATGTGAAGCTGCCAATGGATGAAAAG

CCTCAGAAAGCAACTCAAAGGACTCAAAGCAACCGGACCAACACAAGAGTTGTCTTCAGCCCAAGTGCACACCTCTGAT
 GTCCCCTGGAAGCTTTGTGCTAACCTGGGACTGCCTGACTTCCTTTAGCCCTGGTCCCTTGCTACTACCTTGAACCT
 GTTTTATCTAACCTCTCTTTTTCTGTTTAATTCCTTTGCTACTGCCATTGACCCTGCTGCAGGATTTGTGTCATTT
 TCCTGCCTGGTTGCTGAGACTCCATTTTGTGCGCACACACAGAGATGTAAGAGGCAGGCTTTAATTGCCAAAGCA
 CAGTTTGAGCAGTAGAAAAACAACATGGTGTATATCTCAAATTGCCTGACATGAAGAGGAGTCTAACGGTGAAGTT
 TCACTTTTTCATCAGCATCATCTTTCACATGTTTCATTATCATCCGCTCTTATTCTTGCATGTTTAAACACTTAAAA
 TTTTATAGTATAATTTTTAGTGTGTTTGAAGTGGTGACTAGGCTTTCAAAAACCTTCCATTGAATTACAAAGCAC
 ATCCAGTTCTTATTGTTAAACTAAGTAAAAATGATAAGTAACATAGTGTAATAATTTCCTTTACTGTGAACTTCT
 TACAATGCTGTGAATGAGAGGCTCCTCAGAACTGGAGCATTGTGATAATAATTCATCCTGTTTCATCTTCAATTTT
 AACATCATATATAATTTCAATTCTATCAATTGGGCCCTTTAAAAATCATATAAAAGGATATAAAAATTTGAAAAAGAG
 AAACCTAATTGGCTATTTAATCCAAAACAACCTTTTTTTTTTTCCTTCAATGGAATCAGAAAGCTTGTCAATCACTC
 ATGTGTTTTAGAGTAATTACTTTTAAAAATGGTGCATTGTGCTTCTGAACTATTTTGAAGAGTCACTTCTGTTT
 CCTCAAGTATCAATTCATCCTCCATACATTTGAATTCAAGTTGTTTTTGTCAAATTTACAGTTGTCAATTGATC
 TTCAAGCTGCAGGGTGCCTAGAAATGGGCCGTTGTCTGTAGCCCTGGCATGTGCACACGGACATTTGCCACCAC
 GCAAGCAAAAGTCTGGAGAAGTTCACCAACGACAAGAACGATTAGGGAAAATATGCTGCTGTGGGTTAACAACCTC
 AGAAAGTCCCTGATCCACATTTGGCTGTTTACTAAAGCTTGTGAGTTAACTTTTTTGGCAGTGTGTACTATGCTCTA
 TTGCTATATATGCTATCTATAAAATGTAGATGTTAAGGATAAGTAATTCTAAATTTATTATTCTATAGTTTTGAAG
 TTTGGTTAAGTTTCTTTTCACTCAATTGATTTATTTTGTGTTAATCAAATTTATGTTAATTGGATCCTTTAAAT
 TTTTTTGGCATTTTCCAACAAAAATGGCTTTATTCATAAGAAAGGAAAAAATCAATGGAATTTGATATCTAAA
 GAAGTTAGAAAGGGAGCAAAAATAAAAAACATAAAGGAGATAGATGAATTAGTAAGCAAATCAGTAGTCGAGTTTT
 TCAAAC TGGCAAATTAATTAATTGACTTTTAGCCCAAATTTACATTGTTAATTAATCAAGAAGGAAGAAGATC
 TAAGAGCTCCCATTGATAGGCAAGCCTAGAGAGAACTAGCTAAATTTATCATGCTAGGATATTGAAACACAGAAA
 GTTTACATACATTTATGAAGGGTCAATTTAGTTTGGACAGTGAGGTATTTGTCTTAGTGGAAGGAGGAGAAATTA
 GTCTGATCAAATCGTGAAGTAATACAGTGAACCTGCAGGTGCACAAAATAAGAGGGCCACATCTATATGGTGCAG
 TCTGGAATTCGTGTTTAAGTTTGTAGGTACCTCTTGGACTTCTGAATTGATCCAGTTGTCTATCCACCACAGACATC
 TCACATCAGATACAGACAGTTCCAAGATTGACAACAGAGAACAACCTGCTGGAAAGACCTGGGCAGAAATGGAGA
 GCCCTGCGGGAACCATGCTACATTTTCATCTAAAGAGAGAATGCACATCTGATGAGACTGAAAGTTCTTTGTTGT
 TTTAGATTGTAGAATGGTATTGAATTGGTCTGTGGAAAATTGCATTGCTTTTATTCTTTGTGTAATCAAGTTT
 AGTAATAGGGGATATATAATCATAAGCATTTTAGGGTGGGAGGGACTATTAAGTAATTTTAAAGTGGGTGGGGTTA
 TTTAGAATGTTAGAATAATATTATGTATTAGATATCGCTATAAGTGGACATGCGTACTTTACTTGTAACCCCTTAC
 CCTATAATTGCTATCCTTAAAGATTTCAAATAAACTCGGAGGGAACTGCAGGGAGACCAACTTATTTAGAGCGAA
 TTGGACATGGATAAAAAACCCAGTGGGAGAAAAGTTCAAAGGTGATTAGATTAATAATTTAATAGAGGATGAGTGA
 CCTCTGATAAATTACTGCTAGAATGAACTTGTCATGATGGATGGTAAATTTTCATGGAAGTTATAAAAGTGATA
 AATAAAAAACCCCTTGCTTTTACCCCTGTCAGTAGCCCTCCTCCTACCCTGAACCCCATGCCCCCTACCCCTCCTT
 CTAACCTTTATTGCTGTATTCTCTTCACTCTATATTTCTCTCTATTGCTAATATTGCATTGCTGTTACAATAAAA
 ATTCATAAAGATTAGTGGTTAAGTGC

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FIGURE 2320

MTERRRDELSEEINNLREKVMKQSEENNNLQSQVQKLTEENTTLREQVEPTPEDEDDDIELRGAAAAAAPPPIE
EECPEDLPEKFDGNPDMLAPFMAQCQIFMEKSTRDFSVDVRVRCFVTSMMTGRAARWASAKLERSHYLMHNYPF
MMEMKHVFEDPQRREVAKRKIRRLRQGMGSVIDYSNAFQMIQDLDWNEPALIDQYHEGLSDHIQEELSHLEVAK
SLSALIGQCIHIERRLARAAAARKPRSPPRALVLPHIASHHQVDPTEPVGGARMRLTQEEKERRRKLNLCLYCGT
GGHYADNCPAKASKSSPAGNSPAPL

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FIGURE 2321A

AGCACCACGGCAGCAGGAGGTTTCGGCTAAGTTGGAGGTACTGGCCACGACTGCATGCCCCGCGCCCGCCAGGTGA
TACCTCCGCGCGGTGACCCAGGGGCTCTGCGACACAAGGAGTCTGCATGTCTAAGTGCTAGACATGCTCAGCTTTG
TGGATACGCGGACTTTGTTGCTGCTTGCACTAACCTTATGCCTAGCAACATGCCAATCTTTACAAGAGGAAACTG
TAAGAAAGGGCCAGCCGGAGATAGAGGACCACGTGGAGAAAGGGGTCCACCAGGCCCCCAGGCAGAGATGGTG
AAGATGGTCCCACAGGCCCTCCTGGTCCACCTGGTCTCTGGCCCCCTGGTCTCGGTGGGAACCTTTGCTGCTC
AGTATGATGGAAAAGGAGTTGGACTTGGCCCTGGACCAATGGGCTTAATGGGACCTAGAGGCCACCTGGTGCA
CTGGAGCCCCAGGCCCTCAAGGTTTCCAAGGACCTGCTGGTGAACCTGGTCAAACCTGGTCTGCA
GTGCTCGTGGTCCAGCTGGCCCTCCTGGCAAGGCTGGTGAAGATGGTCACCCTGGAAAACCCGGACGACCTGGTG
AGAGAGGAGTTGTTGGACCACAGGGTGCTCGTGGTTTCCCTGGAACTCCTGGACTTCTGGCTTCAAAGGCATTA
GGGGACACAATGGTCTGGATGGATTGAAGGGACAGCCCGGTGCTCCTGGTGTGAAGGGTGAACCTGGTGCCCTG
GTGAAAATGGAACCTCAGGTCAAACAGGAGCCCGTGGGCTTCTGGTGAGAGAGGACGTGTTGGTGCCCTGGCC
CAGCTGGTGCCCGTGGCAGTGATGGAAGTGTGGGTCCCGTGGGTCTGCTGGTCCCATTGGGTCTGCTGGCCCTC
CAGGCTTCCCAGGTGCCCCGAGGGTGAATTTGGAGCTATTGGTAACGCTGGTCTGCTGGTCCCGCCG
GTCCCCGTGGTGAAGTGGGTCTTCCAGGCCTCTCCGGCCCCGTGGACCTCCTGGTAATCCTGGAGCAAACGGCC
TTACTGGTGCCAAGGGTGCTGCTGGCCTTCCCGCGTGTGCTGGGGCTCCCGGCCTCCTGGACCCCGCGGTATT
CTGGCCCTGTTGGTGCTGCCGGTGCTACTGGTGCCAGAGGACTTGTGGTGAGCCTGGTCCAGCTGGCTCCAAAG
GAGAGAGCGGTAACAAGGGTGAGCCCGCTCTGCTGGGCCCCAAGGTCTCCTGGTCCCAGTGGTGAAGAAGGAA
AGAGAGGCCCTAATGGGGAAGCTGGATCTGCCGGCCCTCCAGGACCTCCTGGGCTGAGAGGTAGTCTGGTTCTC
GTGGTCTTCTGGAGCTGATGGCAGAGCTGGCGTCATGGGCCCTCCTGGTAGTCTGGTGCAAGTGGCCCTGCTG
GAGTCCGAGGACCTAATGGAGATGCTGGTCCGCTGGGGAGCCTGGTCTCATGGGACCCAGAGGTCTTCTGGTT
CCCCTGGAATATCGGCCCGCTGGAAAAGAAGGTCTGTGCGCCCTCCCTGGCATCGACGGCAGGCCTGGCCCAA
TTGGCCCCGTGGAGCAAGAGGAGAGCCTGGCAACATTGGATTCCCTGGACCCAAAGGCCCCACTGGTGACCCTG
GCAAAAACGGTGATAAAGGTGATGCTGGTCTTGGTGCTCGGGGTGCTCCAGGTCTGATGGAAACAATGGTG
CTCAGGGACCTCCTGGACCACAGGGTGTTCAGGTGGAAAAGGTGAACAGGGTCCCGCTGGTCTCCAGGCTTCC
AGGGTCTGCCTGGCCCCCTCAGGTCCCGCTGGTGAAGTTGGCAAACCAGGAGAAAGGGGTCTCCATGGTGAGTTT
GTCTCCCTGGTCTGCTGGTCCAAGAGGGGAACCGGTCCCCCAGGTGAGAGTGGTGCTGCCGGTCTACTGGT
CTATTGGAAGCCGAGGTCTTCTGGACCCCCAGGGCTGATGGAAACAAGGGTGAACCTGGTGTGGTTGGTGCTG
TGGGCACTGCTGGTCCATCTGGTCTAGTGGACTCCCAGGAGAGAGGGGTGCTGCTGGCATACTGGAGGCAAGG
GAGAAAAGGGTGAACCTGGTCTCAGAGGTGAAATTGGTAACCTGGCAGAGATGGTGCTCGTGGTGCTCATGGTG
CTGTAGGTGCCCCCTGGTCTGCTGGAGCCACAGGTGACCGGGGCGAAGCTGGGGCTGCTGGTCTGCTGGTCTG
CTGGTCTCGGGGAAGCCCTGGTGAACGTGGCGAGGTCTGCTGGCCCCAACGGATTGCTGGTCCGGCTG
GTGCTGCTGGTCAACCGGGTGCTAAAGGAGAAAGAGGAGGCAAAGGGCTAAGGGTGAACCGGTGTTGTTGGTC
CCACAGGCCCGGTGGAGCTGCTGGCCAGCTGGTCCAAATGGTCCCCCGGTCTGCTGGAAGTCTGGTGATG
GAGGCCCCCTGGTATGACTGGTTTCCCTGGTGCTGCTGGACGGACTGGTCCCCCAGGACCCTCTGGTATTTCTG
GCCCTCCTGGTCCCCCTGGTCTGCTGGGAAAGAAGGGCTTCGTGGTCTCTGTTGGTGAACCAAGGTCCAGTTGGCC
GAACTGGAGAAGTAGGTGCAGTTGGTCCCCCTGGCTTCGCTGGTGAGAAGGGTCCCTCTGGAGAGGCTGGTACTG
CTGGACCTCCTGGCACTCCAGGTCTCAGGGTCTTCTGGTGCTCCTGGTATTCTGGGTCTCCCTGGCTCGAGAG
GTGAACGTGGTCTACCTGGTGTGCTGGTGCTGTGGGTGAACCTGGTCTCTTGGCATTGCCGGCCCTCCTGGGG
CCCGTGGTCTCCTGGTGCTGTGGGTAGTCTGGAGTCAACGGTGCTCCTGGTGAAGCTGGTCTGATGGCAACC
CTGGGAACGATGGTCCCCCAGGTGCGGATGGTCAACCCGGACACAAGGGAGAGCGCGGTTACCCTGGCAATATTG
GTCCCGTTGGTGCTGCAGGTGCACCTGGTCTCATGGCCCCGTGGGTCTGCTGGCAAACATGGAAACCGTGGTG
AAACTGGTCTTCTGGTCTGTTGGTCTGCTGGTGCTGTTGGCCCAAGAGGTCTAGTGGCCCAACAAGGCATT
GTGGCGATAAGGGAGAGCCCGGTGAAAAGGGGCCAGAGGTCTTCTGGCTTCAAGGGACACAATGGATTGCAAG
GTCTGCCTGGTATCGCTGGTCAACCATGGTGATCAAGGTGCTCCTGGTCCGTGGGTCTGCTGGTCTAGGGGCC
CTGCTGGTCTTCTGGCCCTGCTGGAAAAGATGGTTCGCACTGGACATCCTGGTACGGTTGGACCTGCTGGCATT
GAGGCCCTCAGGGTCACCAAGGCCCTGCTGGCCCCCTGGTCCCCCTGGCCCTCCTGGACCTCCAGGTGTAAGCG
GTGGTGGTTATGACTTTGGTTACGATGGAGACTTCTACAGGGCTGACCAGCCTCGCTCAGCACCTTCTCTCAGAC
CCAAGGACTATGAAGTTGATGCTACTCTGAAGTCTCTCAACAACCAGATTGAGACCCTTCTTACTCCTGAAGGCT

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FIGURE 2321B

CTAGAAAGAACCCAGCTCGCACATGCCGTGACTTGAGACTCAGCCACCCAGAGTGGAGCAGTGGTTACTACTGGA
TTGACCCCAACCAAGGATGCACTATGGAAGCCATCAAAGTATACTGTGATTTCCCTACCGGCCGAAACCTGTATCC
GGGCCCCAACCTGAAAACATCCCAGCCAAGAAGCTGGTATAGGAGCTCCAAGGACAAGAAACACGTCTGGCTAGGAG
AAACTATCAATGCTGGCAGCCAGTTTGAATATAATGTTGAAGGAGTGACTTCCAAGGAAATGGCTACCCAACTTG
CCTTCATGCGCCTGCTGGCCAACTATGCCTCTCAGAACATCACCTACCACTGCAAGAACAGCATTGCATACATGG
ATGAGGAGACTGGCAACCTGAAAAAGGCTGTCATTCTACAGGGCTCTAATGATGTTGAACTTGTTGCTGAGGGCA
ACAGCAGGTTCACTTACACTGTTCTTGTAGATGGCTGCTCTAAAAAGACAAATGAATGGGGAAAGACAATCATTG
AATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATG
AATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAAGAAAGAAATTTGA
AAAAACTTTTCTCTTTGCCATTTCTTCTTCTTTTTTAACTGAAAGCTGAATCCTTCCATTTCTTCTGCACATC
TACTTGCTTAAATTGTGGGCAAAAAGAGAAAAAGAAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTAACTC
CTTCCCCCGCTCCCCCAAAATTTGAATTTTTTTTTTCAACACTCTTACACCTGTTATGGAAAATGTCAACCTTTG
TAAGAAAACCAAAATAAAAATTGAAAAATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCC
ACAGAGGGAAGTTTAAAACCCAAACTTCCAAAGGTTTAAACTACCTCAAAACACTTTCCCATGAGTGTGATCCAC
ATTGTTAGGTGCTGACCTAGACAGAGATGAACTGAGGTCCTTGTTTTGTTTTGTTTCATAATACAAAGGTGCTAAT
TAATAGTATTTTCAATACCTGAAAGATGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTT
GTATCGTGTGGTGTATTTTTTAAAAAATTTGATTTAGCATTTCATATTTTCCATCTTATTCCCAATTAAAGTATG
CAGATTATTTGCCCAAAGTTGTCCTCTTCTTCAGATTTCAGCATTGTTCTTTGCCAGTCTCATTTTCATCTTCTT
CCATGGTTCCACAGAAGCTTTGTTTCTTGGGCAAGCAGAAAAATTAAATTGTACCTATTTTGTATATGTGAGATG
TTTAAATAAATTGTGAAAAAATGAAATAAAGCATGTTTGGTTTTCCAAAAGAACATAT

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FIGURE 2322

ATTTAAC TTTTAATGCTTTTCTACAATATGCTATAAATATAAGAAAAATTAAAATTCAC TAACAGCAAGACTAC
ATACCCACCCAGGTCCCGCTCCCAAAGACACACATAGAGGGACATACACACAACAATCCTAAAAATGACTTTGTA
GAGATAGGTCAC TTGGAATGTGTGTTGAAATGTTGTTGGTTTTTTTTGGTTGGTTTGTTTGTTTGTTTTGTTTAG
ACTGATAGGGAGCCCCTCCCACTAAAGACACCCTTGATACTGTTATTTCAAGGATGAACTTATTTATCTGGGACA
GACATCTTCAGAATGACACATGCCAAACAGTGGTTC TTATTAAATCAAAGGTT CAGATATTATCAGATTCAGAAA
TAGTGATGCTTTGTGTATCTATTTTCTTCTCTTTAAACAGAAAAAGACAAATGAATGGGGAAAGACAATCATTGA
ATACAAAACAAATAAGCCATCACGCCTGCCCTTCCTTGATATTGCACCTTTGGACATCGGTGGTGCTGACCATGA
ATTCTTTGTGGACATTGGCCCAGTCTGTTTCAAATAAATGAACTCAATCTAAATTAAAAAAGAAAGAAATTTGGA
GAAAAAGAAGGATTGATCAGAGCATTGTGCAATACAGTTTCATTA ACTCCTTCCCCCGCTCCCCCAAAAATTTGA
ATTTTTTTTTTCAACACTCTTACACCTGTTATGGAAAATGTCAACCTTTGTAAGAAAACCAAAATAAAAAATTGAAA
AATAAAAACCATAAACATTTGCACCACTTGTGGCTTTTGAATATCTTCCACAGAGGGAAGTTTAAAACCCAACT
TCCAAAGGTTTTAAACTACCTCAAACACTTTCCCATGAGTGTGATCCACATTGTTAGGTGCTGACCTAGACAGAG
ATGAACTGAGGTCCTTGTTTTGTTTGTTCATAATACAAAGGTGCTAATTAATAGTATTT CAGATACTTGAAGAA
TGTTGATGGTGCTAGAAGAATTTGAGAAGAAATACTCCTGTATTGAGTTGTATCGTGTGGTGATTTTTTAA

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FIGURE 2323

CATCCGTGGACTTGGAGGCTGGCTCGGGCCCCGCACCTCCCATCCCCAGCTGCCCCGCAACCCCCAGTGA CTGGGA
TCCCCCGGAGAGCCCTCCCCTCTCGGCAGGAGGGGGCTGACTCAGGGAGAAATGGCAGTTTAGGGCCTAGGGGGC
CACGTGACCCCTCCCCCAGGAATGTGGTGACGTACATCGGAGGCGTGGTCGTCGCCAAAATTAGGGAGGAAGAGGAA
AAAAAAAAAGCCAGAAAAAGTTTTCTTTCTGGAGTCCCAAACGAGGTGCGGGACGGAAGAGGGGGTGAAGGCCAG
AGGCTCGGGGCTTCAAGACCGCTGTCTGGAGTCCCCCTTTCCAGGCCATGTGCGGGGCCACCTGGCTGCCCCGA
AGCAGCCGGAGCCCCGCCAGAGCCCTCAGGGGAGGGCGATCCCCCGCGGCACCCCGGGGCCACCAACCGGGCCACG
GAGCAGCACTCCAGCCCCACCCAGGGTCAATTTTTGCCCCCTTCCATCTGAGCAGTGTTACCAGGCCCCAGGGG
GACCGGAGGATCGGGGGCCGGCGTGGGTGGGGTCCCATGGAGTACTCCAGCACACGCAGGGGGCTCCCTGCAGACA
GGGGGGGCTTTCGCCCTGGAAGCCTGGACGCCGAGATAGACTTGCTGAGCAGCACGCTGGCCGAGCTGAATGGGG
GTCGGGGTTCATGCGTCACGGCGACCAGACCGACAGGCATATGAGCCCCCGCCACCTCCTGCCTACCGCACGGGCT
CCCTGAAGCCAAATCCAGCCTCGCCGCTCCCAGCGTCTCCCTATGGGGGCCCCACTCCAGCCTCTTACACTACCG
CCAGCACCCCGGCTGGCCCAGCCTTCCCCGTGCAAGTGAAGGTGGCACAGCCAGTGAGGGGCTGCGGGCCACCCA
GGCGGGGAGCCTCTCAGGCCTCTGGGCCCCCTCCCGGGCCCCACTTTCCTCTCCAGGCCGAGGTGAAGTCTGGG
GGCCTGGCTATAGGAGCCAGAGAGAGCCAGGGCCAGGGGGCCAAAGAGGAAGCTGCTGGGGTCTCTGGCCCTGCAG
GAAGAGGAAGAGGAGGCGAGCACGGGCCCCAGGTGCCCCCTGAGCCAGCCTCCAGAGGATGAGCTGGATAGGCTGA
CGAAGAAGCTGGTTCACGACATGAACCACCCGCCCAGCGGGGAGTACTTTGGCCAGTGTGGTGGCTGCGGAGAAG
ATGTGGTTGGGGATGGGGCTGGGGTTGTGGCCCTTGATCGCGTCTTTCACGTGGGCTGCTTTGTATGTTCTACAT
GCCGGGCCCCAGCTTCGCGGCCAGCATTTCTACGCCGTGGAGAGGAGGGCATATTGCGAGGGCTGCTACGTGGCCA
CCCTGGAGAAAATGTGCCACGTGCTCCCAGCCCATCCTGGACCGGATCCTGCGGGCTATGGGGAAGGCCTACCACC
CTGGCTGCTTCACCTGCGTGGTGTGTACCGCGGCCTCGACGGCATCCCCCTTCACAGTGGATGCTACGAGCCAGA
TCCACTGCATTGAGGACTTTCACAGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGC
CAGGTCAGGAGGAGACTGTGAGAATTGTTGCTCTGGATCGAAGTTTTACATTGGCTGTTACAAGTGCGAGGAGT
GTGGGCTGCTGCTCTCCTCTGAGGGCGAGTGTGAGGGCTGCTACCCGCTGGATGGGCACATCTTGTGCAAGGCCT
GCAGCGCCTGGCGCATCCAGGAGCTCTCAGCCACCGTCACCACTGACTGCTGAGTCTTCTAGAAAGTACCTGCTG
GGTTCTCAGTTCAGTTCCTATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTACCAAAAT
GCTGTCTTCTCTTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACACTTCCAAGTCTGTTGTCTCAT
CTGATTCTCCCAGTAGCCCATACAGGCCAGTCATTGTT

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FIGURE 2324

MSGPTWLPPKQPEPARAPQGRAIPRGTPGPPPAHGAALQPHPRVNFCLPSEQCYQAPGGPEDRGPAWVGSHGVL
QHTQGLPADRGGLRPGSLDAEIDLLSSTLAELNGGRGHASRRPDRQAYEPPPPPAYRTGSLKPNPASPLPASPYG
GPTPASYTTASTPAGPAFPVQVKVAQFVRGCGPPRRGASQASGPLPGPHFPLPGRGEVWGPgyrsQREPGPGAKE
EAAGVSGPAGRGRGGEHGPQVPLSQPPEDELDRLTKKLVHDMNHPPSGEYFGQCGGCGEDVVG DGAGVVALDRVF
HVGCFVCSTCRAQLRGQHFYAVERRAYCEGCVATLEKCATCSQPILDRILRAMGKAYHPGCFTCVVCHRGLDGI
PFTVDATSQIHCIEDFHRKFAPRCSVCGGAIMPEPGQEETVRIVALDRSFHIGCYKCEECGLLLSSEGEQCQGCYP
LDGHILCKACSAWRIQELSATVTTDC

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FIGURE 2325

GTCTTTTCCGGCCCCCGTGCACTCTCCGCCCCGAGCGGAGCCCCCGGGCTCGCGGGGATCGCCCCGAGCGCTGCG
TCCTGCGGGTACCTAACCATTGTGGCTTCCCTCTACCTGTGCTCAGCCATGGCCAGCGAGAGCTCACCTCTGC
TGGCCTACCGGCTCCTGGGGGAGGAGGGGGTGGCCCTCCCTGCCAATGGGGCCGGGGGTCTGGAGGGGCGTCTG
CCCGGAAGCTGTCCACCTTCCCTGGGTGTGGTGGTGCCCACTGTCTGTCCATGTTTACAGCATAGTTGTTTTTCTGA
GGATTGGGTTCTGTGGTGGGTTCATGCTGGGCTACTGCAGGCCCCGGCCATGCTGCTGGTTGCCTACTTCATCCTGG
CACTCACCGTCCCTCTGTCTGTGTCATCGCCACCAATGGAGCCGTGCAGGGGGGCGGAGCCTACTTCATGATCA
GCCGCACACTGGGGCCCCGAGGTGGGGGCGAGCATTTGGGCTCATGTTCTACCTGGCTAACGTCTGTGGCTGTGCCG
TCTCCCTCCTGGGGCTGGTGGAGTCTGTGCTTGATGTCTTCGGGGCCGATGCCACAGGGCCCCAGTGGGCTCCGGG
TCCTGCCCCAGGGCTACGGCTGGAACCTGCTGTATGGCTCCCTGCTGCTGGGCCTTGTGGGTGGGGTCTGCACCC
TGGGAGCCGGCCTCTATGCCCGGGCCTCATTCCTCACATTCCTGCTGGTCTCTGGCTCCCTGGCCTCTGTGCTCA
TCAGTTTTGTGGCTGTGGGGCCGAGGGACATCCGCTTGACTCCTAGGCCTGGCCCCAATGGCTCCTCCCTGCCGC
CCCGGTTTGGCCACTTCACCGGCTTCAACAGCAGTACCTGAAGGACAACCTTGGGCGCTGGCTATGCTGAGGACT
ACACCAGGGGAGCCGTGATGAATTTTGCCAGCGTCTTTGCTGTCTCTTTAACGGCTGTACAGGCATCATGGCTG
GGGCCAACATGTACAGGGGAGCTGAAGGACCCAGCCGGGCGATCCCTCTGGGCACGATCGTCGCCGTGCCTACA
CCTTCTTCGTCTATGTCTGCTTTTCTTTCTCTCCAGCTTCACCTGTGACAGGACCCTGCTGCAGGAAGACTATG
GGTCTTCCGCGCCATCAGCCTGTGGCCCCCACTGGTGTGATCGGAATCTATGCCACAGCGCTCTCAGCGTCCA
TGAGCTCGCTCATTGGTGCCTCCCGCATCCTCCATGCCCTGGCCCCGGGATGACCTCTTTGGCGTGATCTTGGCAC
CGGCCAAGGTTGTGTCCCGAGGGGGAACCCCTGGGCAGCTGTACTTTATTCTTGGGGCCTGGTGCAGCTGGTGC
TCCTGGCTGGGAAGCTGAACACACTGGCTGCTGTGGTCACTGTCTTCTACCTGGTGGCCTATGCTGCCGTGGACC
TGTCTGCTGAGCCTGGAGTGGGCTCGGCCCCCACTTCGCCCCACCTTCAGCCTGTTCTCCTGGCACACCT
GCCTGCTGGGGGTGGCCTCCTGCCTGCTCATGATGTTCTCATCAGTCTTGGCGCGGCTGGTGGCTCCCTGCTCC
TCATGGGTCTGCTGGCTGCCCTGCTCACCGCGCGAGGAGGCCCCAGTAGCTGGGGCTATGTACAGCCAGGCCTTGC
TTTTCCACCAGGTGCGTAAGTATCTGCTTCGGCTGGACGTCCGGAAGGATCACGTGAAGTTCTGGCGGGCCCCAGC
TGCTGCTCCTGGTGGGGAACCCCGGGGCGCCCTGCCTCTGCTGCGGTTGGCCAACCAGCTTAAGAAGGGGGGGC
TGATGTGCTGGGCCACGTACCCCTGGGAGACCTCGACTCCCTGCCCTCGGACCCTGTACAGCCGAGTATGGGG
CATGGCTCAGCCTGGTGGACCGTGCCAGGTGAAGGCTTTTGTGGATCTAACCTCTCACCTCCGTGCGCCAGG
GGGCTCAGCATCTGCTGCGAATCTCCGGCCTCGGTGGCATGAAGCCCAACACGTTGGTCTAGGTTTCTACGATG
ACGCTCCACCGCAGGACCATTTCTGACGGACCCGGCTTTCTCTGAGCCTGCAGACAGCACCAGGGAGGGCAGTT
CCCCAGCTCTGAGCACCTGTTCCCTCCTCCCCGGGCTCCTGGGAGCCCCCGGGCCCTCAATCCCCAGGACTATG
TGGCCACGGTGGCCGACGCCCTCAAGATGAACAAGAATGTGGTGTGCGCCGGGCGAGCGGGCCTTGCCCCCTG
AGCGGCTGAGCCGGGGGTCTGGGGGCACCTCTCAGCTGCACCATGTGGACGTGTGGCCCTCAACCTGCTGCGGC
CCCGGGGTGGGCCCCGGCTATGTGGATGTCTGCGGCCTCTTCTGCTGCAGATGGCAACCATCTTGGGCATGGTGC
CCGCTTGGCATAGCGCCCGGCTCCGGATCTTCTGTGCTGGGGCCTCGGGAGGCGCCTGGGGCGGCCGAGGGGC
GGCTGCGGGCACTGCTGAGCCAACCTGAGGATCCGGGCTGAGGTGCAGGAGGTGGTGTGGGGCGAGGGGGCCGGG
CTGGGGAACCCGAGGCGGAGGAGGAAGGGGACTTTGTGAACAGTGGGCGGGGAGACGCAGAGGCAGAGGCCCTGG
CACGCAGCGCCAACGCCCTGGTTTCGGGCCCAGCAGGGGCGCGGCACAGGAGGAGGGCCGGGTGGGCCGGAGGGTG
GGGATGCTGAGGGCCCCATCACAGCCCTCACCTTCCTGTACTTGCTCGGCCGCCAGCCGATCCCGCCCCGATAACC
CCCGCTACCTGGCGCTACTGGAGACTCTAACCCGAGACCTGGGCCCCACGCTGCTGGTTTATGGGGTCACTCCAG
TCACCTGCACTGATCTGTGATGCCCCCTGCCTCCAGGGCTAGGTAGAGAGGGGCCAGGCAGGCGGCCTATCCTGAT
CCTTGGAGGAGGAGGAAGAGGAGGCCACTGTGGCCCGTGGCCCTGCCCTTGGGACGTGGAGCCCAGGGGAGGTTT
GAAGGGGATCCTGGGCTTGGGCATCACGCCACCTCCTTTGGCAGAGGGACCCAGCACACTAACTCTGGGTGGC
TGTCCCCACCGTGCAGGGGAGGGAGTCCGCAGCCTCCCTTCACTGGTGCCTTGATGCTAGGGGCCAGGCCTCCTC
TGTGACTCTGGGCTACCTCAGTTTCCCCATTTTGGCCAGACTCACCGGCCACTGGGGTGGTGTATGTTTTCTGTTT
TGTTTTATTTTCTAACTCTGCTGACCATGAATAAAGACCAAAACAC

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FIGURE 2326

GCGCGGGCAGGGCCGCACGAGCTGGCTGGCTGCTTGACCCACATCCTTCTTTCTCTGGGACCTGGGGTCGCGGT
TACTTGGGCTGGCCGGCGAACCCTTGAGTGGCCTGGCGGGGAGCGGGCCTCGCGCGCCTGGAGGGCCCTGTGGAA
CGAAGAGAGGCACACAGCATGGCAGAAAACCGAGAGCCCCGCGGTGCTGTGGAGGCTGAACTGGATCCAGTGGAA
TACACCCTTAGGAAAAGGCTTCCCAGCCGCTTGCCCCGGAGACCCAATGACATTTATGTCAACATGAAGACGGAC
TTTAAGGCCCAGCTGGCCCGCTGCCAGAAGCTGCTGGACGGAGGGGGCCGGGGTCAGAACGCGTGCTCTGAGATC
TACATTCACGGCTTGGGCCTGGCCATCAACCACGCCATCAACATCGCGCTGCAGCTGCAGGCGGGCAGCTTCGGG
TCCTTGACAGGTGGCTGCCAATACTCCACCGTGGAGCTTGTTGATGAGCTGGAGCCAGAGACCGACACACGGGAG
CCACTGACTCGGATCCGCAACAACCTCAGCCATCCACATCCGAGTCTTCAGGGTCACACCCAAGTAATTGAAAAGA
CACTCCTCCACTTATCCCCTCCGTGATATGGCTCTTCGCATGCTGAGTACTGGACCTCGGACCAGAGCCATGTAA
GAAAAGGCCTGTTCCCTGGAAGCCCCAAAGGACTCTGCATTGAGGGTGGGGGTAATTGTCTCTTGGTGGCCCAGTT
AGTGGGCCTTCCTGAGTGTGTGTATGCGGTCTGTAACATTGCCATATAAATAAAAAATCCTGTTGCACTAGTGT
CCTGCCAAA

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FIGURE 2327

MAENREPRGAVEAELDPVEYTLRKRLPSRLPRRPNDIYVNMKTDFKAQLARCQKLLDGGARGQNACSEIYIHGLG
LAINHAINIALQLQAGSFGSLQVAANTSTVELVDELEPETDTREPLTRIRNNSAIHIRVFRVTPK

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FIGURE 2328

GGAGGAAGACAGCGCCGCCCGCGCACCGCCAGCGACCTCCGCCGCAGAGTCCCACCGCCACAGGCCTCGGGCCAG
CGGCCAGGAGCTGCCTCCCCAGCCCCCGTCCCGCGGGCCCCAGCCGCCCCCAACCCTGCCCCACGGGCCCCGGCG
CCATGAGTGAGCTGGAGCAACTGAGACAGGAGGCCGAGCAGCTCCGGAACCAGATCCGGGATGCCCCAAAAGCAT
GTGGGGACTCAAACTGACCCAGATCACAGCTGGGCTGGACCCAGTGGGGAGAATCCAGATGAGGACCCGGAGGA
CCCTCCGTGGGCACCTGGCAAAGATCTATGCCATGCACTGGGGGACCGACTCAAGGCTGCTGGTCAGCGCCTCCC
AGGATGGGAAGCTCATCATCTGGGACAGCTACACCACCAACAAGGTCCACGCCATCCCGCTGCGCTCCTCCTGGG
TAATGACCTGTGCCTACGCGCCCTCAGGGAACCTTTGTGGCCTGTGGGGGGTTGGACAACATCTGCTCCATCTACA
GCCTCAAGACCCGCGAGGGCAACGTCAGGGTCAGCCGGGAGCTGCCTGGCCACACTGGGTACCTGTCGTGTTGCC
GCTTCCTGGATGACAACCAATCATCACCAGCTCTGGGGATACCACCTGTGCCCTGTGGGACATTGAGACAGGCC
AGCAGACAGTGGGTTTTGCTGGACACAGTGGGGATGTGATGTCCCTGTCCCTGGCCCCGATGGCCGCACGTTTG
TGTCAGGCGCCTGTGATGCCTCTATCAAGCTGTGGGACGTGCGGGATTCCATGTGCCGACAGACCTTCATCGGCC
ATGAATCCGACATCAATGCAGTGGCTTTCTTCCCAACGGCTACGCCTTCACCACCGGCTCTGACGACGCCACGT
GCCGCCTCTTCGACCTGCGGGCCGATCAGGAGCTCCTCATGTACTCCCATGACAACATCATCTGTGGCATCACCT
CTGTTGCCTTCTCGCGCAGCGGACGGCTGCTGCTCGCTGGCTACGACGACTTCAACTGCAACATCTGGGATGCCA
TGAAGGGCGACCGTGCAGGAGTCCTCGCTGGCCACGACAACCGCGTGAGCTGCCTCGGGGTCACCGACGATGGCA
TGGCTGTGGCCACGGGCTCCTGGGACTCCTTCCTCAAGATCTGGAATAATGGCCCCACCCCCACTGGGCCAGG
CCAGGAGGGGCCCTGCCCATGCCACACTACAGGCCAGGGCTGCGGGGCTGGCGCAATCCAGCCCCCTTCCCCG
GGCCACGGGGCCTTGGGTCCCTGCCCTCCCACCCAGGTTTGTTTCTCCCGGGGCCCCCACTGTGGAGATAAGAA
GGGGATGGAATGGGGGAAGAGGAGGAGCAGGAGGCCCTCATCCTTCTGCTGCCCTGGGGTTGGGGCCTCACCCCT
CTGGAGGGCCGGAGGCAGGAGGTGGAAACCCAGGGGCTGGCTTTTTTAAACTGGTTTTATTTTAATTTTTATT
ATATTTTCAGTTTTTCCATAAAGGAGCCAATTCCAACCTCTGT

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FIGURE 2329

ATCCTGCTGCTGCCGCCACCGCTGCTGCTGCTCTGCAAAATTTCAGCTGCTGCCTCTGTCTTGAGGACCCCAGCGC
CTTTCCCCCGGGGCC**ATG**CTGCCTGCAGCCACAGCCTCCCTCCTGGGGCCCCCTCCTCACTGCCTGCGCCCTGCTG
CCTTTTGGCCAGGGCCAGACCCCCAACTACACCAGACCCGTGTTCTGTGCGGAGGGGATGTGAAGGGGGAATCA
GGTTACGTGGCAAGTGAGGGGTTCCCCAACCTCTACCCCCCTAATAAGGAGTGCATCTGGACCATAACGGTCCCC
GAGGGCCAGACTGTGTCCCTCTCATTCCGAGTCTTCGACCTGGAGCTGCACCCCGCCTGCCGCTACGATGCTCTG
GAGGTCTTCGCTGGGTCTGGGACTTCCGGCCAGCGGCTCGGACGCTTTTGTGGGACCTTCCGGCCTGCGCCCCTA
GTCGCCCCCGGCAACCAGGTGACCCTGAGGATGACGACGGATGAGGGCACAGGAGGACGAGGCTTCCTGCTCTGG
TACAGCGGGCGGGCCACCTCGGGCACTGAGCACCAATTTTGCGGGGGGCGGCTGGAGAAGGCCCAGGGAACCCTG
ACCACGCCCAACTGGCCCGAGTCCGATTACCCCCCGGGCATCAGCTGTTCTTGGCACATCATCGCGCCCCCGGAC
CAGGTCATCGCGCTGACCTTCGAGAAGTTTGACCTGGAGCCGGACACCTACTGCCGCTATGACTCGGTCAGCGTG
TTCAACGGAGCCGTGAGCGACGACTCCCGGAGGCTGGGGAAGTTCTGCGGCGACGCAGTCCCGGGCTCCATCTCC
TCCGAAGGGAATGAACTCCTCGTCCAGTTCGTCTCAGATCTCAGTGTACCGCTGATGGCTTCTCAGCCTCCTAC
AAGACCCTGCCGCGGGGCACTGCCAAAGAAGGGCAAGGGCCCCGGCCCCAAACGGGGAAGTGAAGCTAAAGTCAAG
CTGCCCCCAAGTCCCAACCTCCGGAGAAAACAGAGGAATCTCCTTCAGCCCCTGATGCACCCACCTGCCCAAAG
CAGTGCCGCCGACAGGCACCTTGCAGAGCAACTTCTGTGCCAGCAGCCTTGTGGTGAAGTGAAGTCC
ATGGTTCGGGAGCCAGGGGAGGGCCTTGCCGTGACTGTCAGTCTTATTGGTGCTTATAAACTGGAGGACTGGAC
CTGCCTTCTCCACCCACTGGTGCCTCCCTGAAGTTTACGTGCCTTGCAAGCAGTGCCCCCCCATGAAGAAAGGA
GTCAGTTATCTGCTGATGGGCCAGGTAGAAGAGAACAGAGGCCCCGTCCTTCCCTCCAGAGAGCTTTGTGGTTCTC
CACCGGCCCAACCAGGACCAGATCCTCACCAACCTAAGCAAGAGGAAGTGCCCTCTCAACCTGTGCGGGCTGCT
GCGTCCCAGGAC**TGA**GACGCAGGCCAGCCCCGGCCCCTAGCCCTCAGGCCTTCTTTCTTATCCAAATAAATGTTT
CTTAATGA

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FIGURE 2330

MLPAATASLLGPLLTAALLPFAQGQTPNYTRPVFLCGGDVKGESGYVASEGFPNLYPPNKECIWTITVPEGQTV
SLSFRVFDLELHPACRYDALEVFAGSGTSGQRLGRFCGTFRPAPLVAPGNQVTLRMTTDEGTGGRGFLWYSGRA
TSGTEHQFCGGRLEKAQGTLTTPNWPESDYPPGISCSWHIIAPPDQVIALTFEKFDLEPDITYCRYDSVSVFNGAV
SDDSRRLGKFCGDAVPGSISSEGNELLVQFVSDLSVTADGFSASYKTLPRGTAKGQGPQPKRGTEPKVKLPKPS
QPPEKTEESPSAPDAPTCPKQCRRTGTLQSNFCASSLVVTATVKSMVREPGEGLA VTVSLIGAYKTGGDLDPSP
TGASLKFYVPCKQCPPMKKGVSYLLMGQVEENRGPVLPPESEFVVLHRPNQDQILTNLSKRKCPSQPVRAAASQD

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FIGURE 2331

GGAGAGGCAGAGACCCAGGGGAGCCGAGGAGCGGAGACACGGACCCAGCAGGGTCACGCGGGAGGAGACTCGGGA
CACCCACTCGCTGGCTGCCACCGGGAGCAGAGGGGGGGCTCGGCCGCCCCCTCCCACATCAGTCTCCAGACCCCTG
GGGCTTCAGAGGCCGCTCCTAGGCTCCTCGGAGGAGGCGGGGTTTCTTCTTTTCCGGAGAGCAAACTTTCCCTCG
GAGATGCCTGGCAGGATGAGCCGCGGCCCCCGGAGAGGACGGGACAGCCTCTGATCGCCGCTGCGTGCCCCGCC
ACTGCCCATGGCCAGGAGGCCCCAGGGAACGGACAGCCCGACCTCTTAGGCGCCGGGACCCCTCAGGCTCAGATCA
GTGGCCGAGGCCCCAGAGTTTGCAAATCAGCTCTGGAGTTCAGCAGCAACAGCAGCAGGAAAAACCTGCCCCCTG
CTCCCCCTCCCGCCACCTCCCTCTCCTCTTCTCCCCCTACCCAGCAGGCACCCCCGGTTCCCGCCAGGCCCTC
CTGCCATGTGCGACCCAGACGTCCCCAGGGGCTCGGATGTCCCCGCCATGTGGCCCCCTTGTTCCAGGGGTGCCT
GAGCCCCTTCAAGGAGCCCCAACCCACCCCCAACCTTGGCCCAGCCCTGAGCCCCAGGGACCAATGACGCGGGGCA
AGAAGAAGAGTAGTTTCCAAATCACCAGCGTCACCACGGACTATGAGGGCCCTGGGAGCCCAGGGGCTTCGGATC
CCCCTACCCACAGCCCCCAACCGGGCCCCCGCCCCGCCTGCCCAATGGGGAGCCCAGCCCCGATCCGGGGGGCA
AGGGCACCCCCCGGAATGGCTCCCCACCACCTGGGGGCCCTTCTTCCCGTTTCCGGGTGGTGAAGCTGCCCCACG
GCCTGGGAGAGCCTTATCGCCGCGGTGCTGAGCTGTGTGGATGTTTATGAGCGAGACCTGGAGCCCCACAGCT
TCGGCGGACTCCTGGAGGGAATTCGAGGGGCCTCAGGGGGCGCCGGGGGCAGATCTTTGGATTCCAGGTTGGAGC
TGGCCAGCCTCGGCCTGGGCGCCCCACCCACCGTCAGGCCTGTCTCAGGGCCCCACCTCCTGGCTCCGTCCAC
CCCCACCTCTCCTGGACCTCAGGCCCGCTCCTTCACTGGGGGACTGGGCCAGCTGGTGGTGCCAGCAAAGCCA
AGGCAGAGAAACCCCCACTGTGCGCCTCCTCACCCAGCAGCGCCCCCAGAGCCTGAGACCGGTGAGAGTGCGG
GCACATCCCGGGCTGCCACGCCCCCTGCCCTCTCTGAGGGTGGAAGCGGAGGCTGGGGGCTCAGGGGCCAGGACCC
CTCCACTGTCCCGGAGGAAAGCTGTAGACATGCGGCTGCGGATGGAGTTGGGTGCTCCAGAAGAGATGGGGCAGG
TGCCCCCACTTGACTCTCGCCCCAGCTCCCCAGCCCTTACTTCACCCACGATGCCAGCCTGGTTTACAAAATCTC
CAGACCCCTTCGGAGCAGTAGCAGCTCAGAAGTTCAGCCTGGCCCACTCCATGTTGGCCATCAGTGGTCACCTAG
ACAGCGACGATGATAGTGGCTCCGGAAGCCTGGTTGGCATTGACAACAAAATCGAGCAAGCCATGGACTTGGTGA
AGTCCACCTCATGTTTTCGGTCCGGGAGGAGGTGGAGGTGCTGAAGGAGCAGATCCGGGAACCTGGCGGAGCGGA
ACGCTGCGCTGGAGCAGGAGAATGGGCTGCTGCGCGCCCTGGCCAGCCCGGAGCAGCTGGCTCAGCTGCCCTCCT
CGGGGGTCCCACGGCTTGGGCCCCCTGCGCCCAATGGGCCCTCCGTCTGAGCCTCCCTTCCCTTACAATGTGCCT
TTGGGGCTGCCCCGGCCTTGGCTCAGCCGCTGCCCCCTCTTCCATATGCAGCTTTAATGTCCCCGTGTCCCCGGGG
TGGGAGTTCAAGGCTCAGTAATGGCCTGGTCCCCCGGCCCTGCCCATCTCCTCATCATCCCCAGCCTTGATGG
AGGAGGGAGGGCTTCAGGACGGGGCGTCAGAGGGAGCCCCCTCTGGGAGGGAACCAACCCCCACCTCCCTCCTG
GGACCCCCCAGCAGTAGACGGCTTGGGGGAGTCGGAGGCTCCCCGGCAGACACCCACCCCCATCTTGTTCCCTT
GAGGTGCCCTCCTCTCCTCTGCCAGGGGAGGGAGTGTGGACAGTATCTGGAAGTTCTGGGATTGAGTTGTTATT
AAAATAATAATAATAATTAATACTCTGAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2332

MSGGKKKSSFQITSVTTDYEGPGSPGASDPFTPQPPTGPPRLPNGEPSDPGGKGTPRNGSPPPGAPSSRFRVV
KLPHGLGEPYRRGRWTCVDVYERDLEPHSFGGGLEGIRGASGGAGGRSLDSRLELASLGLGAPTPPSGLSQGPTS
WLRPPPTSPGPQARSFTGGLGQLVVPSKAKAEKPPLSASSPQQRPEPETGESAGTSRAATPLPSLRVEAEAGGS
GARTPPLSRRKAVIDMRLRMELGAPEEMQVPPLDSPSSPALYFTHDASLVHKSPDPFGAVAAQKFSIAHSMLAI
SGHLDSDDDSGSGSLVGIDNKIEQAMD LVKSHLMFAVREEVEVLKEQIRELAERNAALEQENGLLRALASPEQLA
QLPSSGVPRLGPPAPNGPSV

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FIGURE 2333

ATTTAAACTCCCAGAGCCGTTAAGTTGGTTTCGTAGTCTGATGCGCGCGCAACCAGGGTGGTGGCGGAGTGCGCAT
GCGTGGTTCCGGGGCGAAGGGAACGCGCGCTCACCGTGCGCGCTCGCGGCCGGTGGTAGTGGCGGAGGAGAAA
GGGTGGCGCACGCGCGGTTGAGTCCTCGAGTAGTTCGGGTCTCGCGGGCCTCTTGTGTTTGGTCTCGCGGGCTAG
TAGGGCGCACTTGGCGGGGAGGCGCTTGGGCGCGAGACTAGGCGTGAAGAGCAGAGCTGCGCGCGCACTCGGGAA
AGGGGGGAAGGGAGCAGGGTCCAGGCAGGGGGGGTTAGGCCCCCTGATCCCCCTCGTTACCCCGACTGGCAGCGA
ATAAGGGGAGGAAATGATCGAGATGGCGGGCGGAGAAGGAGCCGTTTCTGGTGCCGGCCCCGCGCCGCCGCTCAA
AGATGAGTCGGGCGGAGGGGGCGGCCCCACGGTGCCACCACCAAGAGGCCGCTCTGGGGAGCTCCGCGGCGG
GACGGAGCGTGGTCCGGGTCTTTCGCGGCCATCTGCGGGGTCCCCAGCCGCTGCGGTGCGTGGGAAAGCCCCGG
GGCCGCGGCCACCTCCTCCAGTGGTCCCCAGGCGCAGCAGCACCGAGGGGGCGGCCCCAGGCGCAGTCGCATGG
GGAGGGCCGCTGTGCGATCCCCCGGGGCGAGCCGCTCCCCCGGACGTGGGGGAGGAGCGCCGGGGAGGGGGCGG
GACAGAGCTGGGTCCCCCTGCTCCTCCTCGACCCCGCAATGGCTATCAGCCCCACCGGCCACCTGGGGGGGGCGG
GGGCAAGAGGAGAAATAGCTGTAATGTAGGGGGAGGCGGGGGAGGCTTCAAACATCCGGCCTTCAAGAGGCGCAG
GCGGGTGAATTCGGAAGTGTGACTCTGTGTTACCTTCCAACCTCCTCCTGGGGGGCAATATCTTTGATCCCCCTGAA
CCTGAATAGCCTCCTGGATGAGGAAGTGAGCCGCACTCTCAACGCGGAGACCCCTAAGTCATCCCCCTTCCGGC
CAAAGGGCGAGATCCGGTGGAGATCCTCATCCCCAAAGATATTACTGACCCGCTCAGTCTCAATACTTGCACTGA
TGAGGGCCATGTAGTTCTTGCTTCGCCACTCAAGACTGGTGGGAAGCGGCATAGACACCGGGGACAGCACCACCA
GCAGCAGCAGGCAGCCGGAGGGAGTGAGAGCCACCCCGTGCCGCCACAGCCCTCTCACCCCTTACTCCACGG
GGAGGGCGCCTCACAGCAGCCGCGGCACAGGGGCCAGAACC GGATGCCCCCAACCCTATGAACTCAACACAGC
CATCAACTGCAGGGATGAAGTGGTGTCTCCCCTTCCATCTGCTCTGCAGGGTCCCTCAGGCTCCCTATCAGCCCC
TCCAGCTGCCTCAGTTATCTCTGCACCCCCATCTTCTCCTCCCGACATCGCAAACGTGCGAGGACTTCCAGCAA
GTCGGAGGCAGGGGCTAGGGGTGGAGGCCAGGGTTCCAAGGAAAAGGGCCGAGGGAGTTGGGGAGGCCGCCACCA
CCACCACCACCCACTGCCTGCAGCAGGCTTCAAAAAGCAACAGCGCAAGTTCCAGTATGGGAATTATTGCAAATA
CTATGGGTACCGCAATCCTTCTGTGAGGATGGGCGCCTTCGGGTGTTGAAGCCTGAGTGGTTTTCGGGGCCGGGA
CGTCTTAGATCTGGGCTGCAATGTGGGCCATCTGACCCTGAGCATTGCCTGCAAGTGGGGCCCGTCCCGCATGGT
GGGCTTGATATCGATTCCCGGCTCATCCATTCTGCCCGCCAAACATCCGACACTACCTTTCCGAGGAGCTGCG
TCTCCACCCACAGACTTTGGAAGGGGACCCGGGGGCGAGGGGTGAGGAAGGGACCACCACCGTTGAAAAGAGGAG
CTGCTTCCCAGCCTCGCTGACTGCCAGCCGGGTCCCATCGCTGCCCCCAAGTGCCCTTGATGGAGCGGACAC
ATCAGTCTTCCCCAACAATGTTGTCTTCGTACGGGTAATTATGTGCTGGATCGAGATGACCTGGTGGAGGCCCA
AACACCTGAGTATGATGTGGTGTCTGCCTCAGCCTCACCAAGTGGGTGCATCTGAACTGGGGAGACGAGGGCCT
GAAGCGCATGTTTTCGCCGATCTACCGGCACCTACGCCCTGGGGGCATCCTGGTCTAGAGCCCCAACCCTGGTC
GTCGTATGGCAAGAGAAAGACTCTTACAGAAAACGATCTACAAGAACTACTACCGAATCCAATTGAAGCCAGAGCA
GTTCAAGTTCTTACCTGACATCCCCAGACGTGGGCTTCTCCAGCTATGAGCTTGTGGCCACACCCACAACACCTC
TAAAGGCTTCCAGCGTCTGTGTACCTGTTCCACAAGGCCCGATCCCCAGCCACTAAGTGGCCCCCTAAACAGA
AAGTGTGAAGAGGCTGCCCTCGCTGCTCATAAGGACCTGGGGGAAGAGGAAAGTGTCCAAGGTCTTCTCTTCT
GACTCCAAAAATAGTTTTCTTTCTTGATCTGCAAAGAAAGCTTTTCTTCCGTGCTGCCTCAGCCTCCTCCCTA
TGCTCTGGCACCTGCGCAGCAAGGCTGGCTGTGCTGGAGTACCATCATCTTCTCTCCCCAGCCTCCAGGC
TGGATGGCATGGACTGTTTGCTGACCTCTGTTCTCTTAGGGCATGGGAGGTGGGAGGATATCAAATTCTCTAGCC
CTTCTCTCTATTCTCTAGCCCTTCTATTCTCCAAGGAGAGAGATTCCCATTTCTCTCGGCCATTGTACCTAG
CTCTTGTCCCTAGCTGCATTTTCAGTGGACCATGGATAGAGGGACTGAGGGTTAGACGGAGAAGACTGGCAGGGAG
GCACGCAGGTACTGTGAAAATCCTTCCCTTTCCTTCCCCAGTGGGAGAGGGGGTTGGGTTTTCAATGTGAGAA
CAGCACAATAAACTTGATGTCTAGGGCAGTGGCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2334

MVGLDIDSRLIHSARQNIRHYLSEELRLPPQTLEGDPGAEGEGTTTVRKRSCTPASLTASRGPIAAPQVPLDGA
DTSVFPNNVVFVTGNYVLD RDDLVEAQTPEYDVVLCLSLTKWVHLNWGDEGLKRMFRIYRHLRPGGILVLEPQP
WSSYGKRKTLTETIYKNYYRIQLKPEQFSSYLTS PDVGFSSYELVATPHNTSKGFQRPVYLFHKARSPSH

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FIGURE 2335

GGCACGAGGGGAAGTGGCTGTTTGGCTGCTGACAACATGAAGACTTCCTGCGATGAGAACAGAGGCACAGGTGCC
GGCCCTGCAGCCCCCAGAACCTGGACTGGAGGGGGGCCATGGGGCACC GGACCCTGGTCCTGCCCTGGGTGCTGCT
GACCTTGTGTGTCACTGCGGGGACCCCGAGGTGTGGGTTCAAGTTCGGATGGAGGCCACCGAGCTCTCGTCCTT
CACCATCCGTTGTGGGTTCTGGGGTCTGGCTCCATCTCCCTGGTGA CTGTGAGCTGGGGGGGCCCCGACGGTGC
TGGGGGGACCACGCTGGCTGTGTTGCACCCAGAACGTGGCATCCGGCAATGGGCCCCCTGCTCGCCAGGCCCGCTG
GGAAACCCAGAGCAGCATCTCTCTCATCCTGGAAGGCTCTGGGGCCAGCAGCCCCCTGCGCCAACACCACCTTCTG
CTGCAAGTTTGCGTCCTTCCCTGAGGGCTCCTGGGAGGCCTGTGGGAGCCTCCCGCCCAGCTCAGACCCAGGGCT
CTCTGCCCCGCGACTCCTGCCCCCATTCTGCGGGCAGACCTGGCCGGGATCTTGGGGGTCTCAGGAGTCCTCCT
CTTTGGCTGTGTCTACCTCCTTCATCTGCTGCGCCGACATAAGCACCGCCCTGCCCCCTAGGCTCCAGCCGTCCCG
CACCAGCCCCCAGGCACCGAGAGCACGAGCATGGGCACCAAGCCAGGCCTCCCAGGCTGCTCTTCACGTCCCTTA
TGCCACTATCAACACCAGCTGCCGCCCAGCTACTTTGGACACAGCTCACCCCATGGGGGGCCGTCCTGGTGGGC
GTCAC TCCCCACCCACGCTGCACACCGGCCCCAGGGCCCTGCCGCTGGGCCTCCACACCCATCCCTGCACGTGG
CAGCTTTGTCTCTGTTGAGAATGGACTCTACGCTCAGGCAGGGGAGAGGCCTCCTCACACTGGTCCCGGCCTCAC
TCTTTTCCCTGACCCTCGGGGGGCCAGGGCCATGGAAGGACCCTTAGGAGTTCGATGAGAGAGACCATGAGGCCA
CTGGGCTTTCCCCCTCCCAGGCCTCCTGGGTGTCA TCCCTTACTTTAATTCTTGGGCCTCCAATAAGTGTCCCA
TAGGTGTCTGGCCAGGCCACCTGCTGCGGATGTGGTCTGTGTGCGTGTGTGGGCACAGGTGTGAGTGTGTGAGT
GACAGTTACCCCATTTAGTCATTTCTGCTGCAACTAAGTCAGCAACACAGTTTCTCTGAAAAAAAAAAAAAA
AAAA

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FIGURE 2336

MRTEAQVPALQPPEPGLEGAMGHRTLVLWPVLLTLCVTAGTPEVWVQVRMEATELSSFTIRCGLGSGSISLVTV
SWGGPDGAGGTTLAVLHPERGIRQWAPARQARWETQSSISLILEGSGASSPCANTTFCKFASFPEGSWEACGSL
PPSSDPGLSAPPTPAPILRADLAGILGVSGVLLFGCVYLLHLLRRHKHRPAPRLQPSRTSPQAPRARAWAPSQAS
QAALHVPYATINTSCRPATLDTAHPHGGPSWWASLPTHAAHRPQGPAAWASTPIPARGSFVSVENGLYAQAGERP
PHTGPGLTLFPDPRGPRAMEGPLGVR

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FIGURE 2337

AAGGGTCTAGGATACAGTCTTTGTAGATGAGCGGGTCCCCCTTGGAGGACAGAATGAAGAATTGGGAAATCATGG
CCGTTCTGGAGAGTAGACAAGAAGACGGCGAAAAGTCGGGCCTGCCCCGCCCTGCGGCCCCGGAACAAAAGAACGC
GTGTGCGCTGGCCCTTTAAGAGCGATTCTCTCCGCCCGCGCCAGCTCGGACCGCGGGAAACCCGGCGCCTGCAC
TACCCCGCCCGGAGATTCCCTTCCGACGCCCCGACCGCCTCCCCGTCACTCATTCTAGGCCCCGCACGGTGATTGG
CTTGCGGCTAGCGGGAGGTGAAGAAGGCCGCTTGTCCGATTGGCCCCGCACGCAGTGGCGCCGGTCACGTGGGGG
GCGACGTTTCGCGCCAATTTCCGTTGGCCGGCCACAGTCCACCGCGCGGAGATTCTCAGCTTCCCCAGGAGCAAG
ACCTCTGAGCCCGCAAGCGCGGCCGCACGGCCCTCGGCAGCGATGGCACTGAAGGACTACGCGCTAGAGAAGGA
AAAGGTAAAGAAGTTCTTACAAGAGTTCTACCAGGATGATGAACTCGGGAAGAAGCAGTTCAAGTATGGGAACCA
GTTGGTTCGGCTGGCTCATCGGGAACAGGTGGCTCTGTATGTGGACCTGGACGACGTAGCCGAGGATGACCCCGA
GTTGGTGGACTCAATTTGTGAGAATGCCAGGCGCTACGCGAAGCTCTTTGCTGATGCCGTACAAGAGCTGCTGCC
TCAGTACAAGGAGAGGGAAGTGGTAAATAAAGATGTCTTGACGTTTACATTGAGCATCGGCTAATGATGGAGCA
GCGGAGTCGGGACCCTGGGATGGTCCGAAGCCCCCAGAACCAGTACCCTGCTGAACCTCATGCGCAGATTGTGAGT
GGTCTCTGTGCGGAAAGATGTAGGGATTGGTTCTCCAGGATCTTGTTTGTGACTGTTTTCTCCCTTAGTGAGCT
GTATTTTCAAGGCCCTAGCAGCAACAAGCCTCGTGTGATCCGGGAAGTGGGGCTGACTCTGTGGGGAAGTTGGT
AACTGTGCGTGGAATCGTCACTCGTGTCTCTGAAGTCAAACCCAAGATGGTGGTGGCCACTTACACTTGTGACCA
GTGTGGGGCAGAGACCTACCAGCCGATCCAGTCTCCCACTTTTCATGCCTCTGATCATGTGCCAAGCCAGGAGTG
CCAAACCAACCGCTCAGGAGGGCGGCTGTATCTGCAGACACGGGGCTCCAGATTCAATCAAAATTCAGGAGATGAA
GATGCAAGAACATAGTGATCAGGTGCCTGTGGGAAATATCCCTCGTAGTATCACGGTGCTGGTAGAAGGAGAGAA
CACAAGGATTGCCAGCCTGGAGACCACGTACGCGTCACTGGTATTTTCTTGCCAATCCTGCGCACTGGGTTCGG
ACAGGTGGTACAGGGTTTACTCTCAGAAACCTACCTGGAAGCCCCATCGGATTGTGAAGATGAACAAGAGTGAGGA
TGATGAGTCTGGGGCTGGAGAGCTCACCAGGGAGGAGCTGAGGCAAATTGCAGAGGAGGATTTCTACGAAAAGCT
GGCAGCTTCAATCGCCCCAGAAATATACGGGCATGAAGATGTGAAGAAGGCACTGCTGCTCCTGCTAGTCGGGGG
TGTGGACCAGTCTCCTCGAGGCATGAAAATCCGGGGCAACATCAACATCTGTCTGATGGGGGATCCTGGTGTGGC
CAAGTCTCAGCTCCTGTCTACATTGATCGACTGGCGCCTCGCAGCCAGTACACAACAGGCCGGGGCTCCTCAGG
AGTGGGGCTTACGGCAGCTGTGCTGAGAGACTCCGTGAGTGGAGAAGTACCTTAGAGGGTGGGGCCCTGGTGTCT
GGCTGACCAGGGTGTGTGCTGCATTGATGAGTTCGACAAGATGGCTGAGGCCGACCGCACAGCCATCCACGAGGT
CATGGAGCAGCAGACCATCTCCATTGCCAAGGCCGGCATTCTCACCACACTCAATGCCCGCTGCTCCATCCTGGC
TGCCGCCAACCCCTGCCTACGGGCGCTACAACCCCTCGCCGCAGCCTGGAGCAGAACATACAGCTACCTGCTGCACT
GCTCTCCCGTTTTGACCTCCTCTGGCTGATTGAGGACCGGCCCGACCGAGACAATGACCTACGGTTGGCCCAGCA
CATCACCTATGTGCACCAGCACAGCCGGCAGCCCCCTCCAGTTTGAACCTCTGGACATGAAGCTCATGAGGCG
TTACATAGCCATGTGCCGCGAGAAGCAGCCCATGGTGCCAGAGTCTCTGGCTGACTACATCACAGCAGCATACGT
GGAGATGAGGCGAGAGGCTTGGGCTAGTAAGGATGCCACCTATACTTCTGCCCGGACCCTGCTGGCTATCCTGCG
CCTTTCACCTGCTCTGGCACGTCTGAGAATGGTGGATGTGGTGGAGAAAGAAGATGTGAATGAAGCCATCAGGCT
AATGGAGATGTCAAAGGACTCTCTTCTAGGAGACAAGGGGCAGACAGCTAGGACTCAGAGACCAGCAGATGTGAT
ATTTGCCACCGTCCGTGAACCTGGTCTCAGGGGGCCGAAGTGTCCGGTTCTCTGAGGCAGAGCAGCGCTGTGTATC
TCGTGGCTTTCACACCCGCCAGTTCCAGGCGGCTCTGGATGAATATGAGGAGCTCAATGTCTGGCAGGTCAATGC
TTCCCGGACACGGATCACTTTTGTCTGATTCCAGCCTGCTTGCAACCCTGGGGTCTCTTGTTCCTGCTGGCCT
GCCCCCTTGGGAAGGGGCAGTGATGCCTTTGAGGGGAAGGAGGAGCCCCCTCTTCTCCCATGCTGCACTTACTCCT
TTTGCTAATAAAAGTGTTTGTAGATTGTCATCTTCTAGCCTGGGCCTGACTTCCATTAAACAGGGTTTTGTGCG
TTTTTTAGATTCCGTGTTCTGTTTTATGCTATTTCACTCAGTAAATTACCTGAGTAAAGTGATCTCCCTGC
CAGGCCCCCAGTATAGACACTGGGGATGCGGCAAGGACTAAGCGGTCCCTGCTGTTTGAGATACTTAAGATGGG
GCTCCACTTTTTGAGCCCCCGACTCCCT

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FIGURE 2338

GGCACGAGGGGAAAATGGCGGCGGCGGCGGCGGCGGCTGCAGCTACGAACGGGACCGGAGGAAGCAGCGGGATGG
AGGTGGATGCAGCAGTAGTCCCCAGCGTGATGCCCTGCGGAGTGACTGGGAGTGTTCCGTCGCTCTCCATCCCC
TTGTCATTCTCAACATCTCAGACCACTGGATCCGCATGCGCTCCCAGGAGGGGCGGCCTGTGCAGGTGATTGGGG
CTCTGATTGGCAAGCAGGAGGGGCCGAAATATCGAGGTGATGAACCTCCTTTGAGCTGCTGTCCCACACCGTGGAAG
AGAAGATTATCATTGACAAGGAATATTATTACACCAAGGAGGAGCAGTTTAAACAGGTGTTCAAGGAGCTGGAGT
TTCTGGGTTGGTATACCACAGGGGGGCCACCTGACCCCTCGGACATCCACGTCCATAAGCAGGTGTGTGAGATCA
TCGAGAGCCCCCTCTTTCTGAAGTTGAACCCTATGACCAAGCACACAGATCTTCCTGTGACGTTTTTTGAGTCTG
TCATTGATATAATCAATGGAGAGGCCACAATGCTGTTTGCTGAGCTGACCTACACTCTGGCCACAGAGGAAGCGG
AACGCATTGGTGTAGACCACGTAGCCCGAATGACAGCAACAGGCAGTGGAGAGAACTCCACTGTGGCTGAACACC
TGATAGCACAGCACAGCGCCATCAAGATGCTGCACAGCCGCGTCAAGCTCATCTTGAGGTACGTCAAGGCCTCTG
AAGCGGGAGAGGTCCCCTTTAATCATGAGATCCTGCGGGAGGCCTATGCTCTGTGTCACTGTCTCCCGGTGCTCA
GCACAGACAAGTTCAAGACAGATTTTTATGATCAATGCAACGACGTGGGGCTCATGGCCTACCTCGGCACCATCA
CCAAAACGTGCAACACCATGAACCAGTTTGTGAACAAGTTCAATGTCCTCTACGACCGACAAGGCATCGGCAGGA
GAATGCGCGGGCTCTTTTTCTGATGAGGGTACTTGAAGGGCTGATGGACAGGGGTCAGGCAACTATCCCAAAGG
GAGGGCACTACACTTCCTTGAGAGAAACCGCTGTCATTAATAAAAGGGGAGCAGCCCCTGAGCACCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 2339

MACGVTGSVSVALHPLVILNISDHWIRMRSQEGRPVQVIGALIGKQEGRNIEVMNSFELLSHTVEEKIIIDKEYY
YTKEEQFKQVFKELEFLGWYTTGGPPDPSDIHVHKQVCEIIESPLFLKLNPMTKHTDLPVSVFESVIDIINGEAT
MLFAELTYTLATEEAERIGVDHVARMTATGSGENSTVAEHLIAQHSAIKMLHSRVKLILEYVKASEAGEVPFNHE
ILREAYALCHCLPVLSTDKFKTDFYDQCNDVGLMAYLGTITKTCNTMNQFVNKFNVLYDRQGIGRRMRGLFF

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FIGURE 2340

GCTTCCGGCACGGGATGTTTTCGGTTGTTTGACCGAGAGAGTTGTAGGCGCAAAGCTGAGGAAAGGAGAGTGTGG
AGAGGGGCGCTGGTGTGGTGGGGCCCGGTGTTTGGGACCGGAGGGTGTGACGGCTGATGAGTTCCTTGGGTTTGC
TCTTTCTTCACCTGAAAAGAAGACTCCAGGAAGGGCAGCACATGCCGGAGAAAGATGAATTGCAGCTTGACCGCC
CAGAGGCGCGGCAGTGACGCCGAGTTGGGACCCTGGGTGATGGCTGCGAGGTCCAAGGACGCGGCGCCGTCCCAA
CGCGACGGACTTTTGCCCGTGAAAGTGGAGGAAGACTCACCCGGAAGTTGGGAGCCCAACTATCCCGCGGCTTCG
CCGGACCCCGAAACTTCTCGACTGCACTTTAGGCAGCTGCGTTACCAGGAGGTGGCTGGACCGGAAGAGGCGCTG
AGCCGGCTCCGAGAACTCTGTCTGTCGGTGGCTGAGACCCGAGCTGCTCTCCAAGGAGCAGATCCTGGAGCTGCTG
GTGCTGGAGCAGTTCCTACCATCCTGCCCGAGGAGCTTCAAGCCTGGGTGCGAGAGCACTGCCCAGAGAGCGGG
GAGGAGGCGGTGGCCGTGGTGCAGGCTCTGCAGCGAGCGCTCGATGGAACCTCATCCCAGGGGATGGTGACTTTC
GAGGACACGGCTGTGTCTTAACCTGGGAGGAGTGGGAGCGCCTGGACCCAGCACGGAGGGACTTCTGCAGAGAG
AGTGCGCAGAAGGATTCCGGGAGCACAGTTCCGCCGAGTTTGGAAAGCAGAGTGGAGAACAAAGAGTTGATTCCA
ATGCAACAAATTTTAGAAGAAGCGGAGCCACAGGGGCAACTACAAGAAGCGTTCCAGGGGAAGCGCCCCCTGTTT
TCTAAGTGTGGCAGTACCCATGAGGACAGGGTGGAAAAGCAGTCCGGAGACCCCTTGCCCCGTGAAACTTGAAAT
TCTCCTGAAGCAGAAGGACTCAACAGCATCTCAGATGTCAATAAGAATGGTTCATAGAAGGGGAAGACTCTAAA
AATAATGAATTGCAGAACAGTGCCAGGTGTTCCAACCTGTTCTATGTCAGCACATCCCGAAAGCAGAGAGGCC
ACTGACAGTGAGGAACACGGGAACAAGTGCAAGCAAAGTTTCCACATGGTGACGTGGCACGTGCTGAAACCTCAC
AAGTCTGACAGTGGAGACAGTTTCCATCATTCCAGCCTTTTTGAGACCCAGAGGCAGCTCCATGAAGAAAGACCT
TATAAATGTGGTAACTGTGGGAAGAGTTTCAAACAACGCTCTGACCTCTTTAGACACCAGAGAATCCACACAGGT
GAGAAACCCTATGGCTGCCAAGAATGTGGGAAAAGCTTCAGCCAGAGTGCTGCCCTGACCAAGCACCAGAGGACA
CACACAGGCGAGAAGCCGTACACCTGTCTGAAATGTGGGGAGCGCTTCAGGCAGAATTCACACCTAAATCGTCAT
CAAAGTACCCACAGTAGAGACAAACATTTTAAATGTGAGGAATGCGGGGAAACCTGTCATATTTCCAACCTTTTT
AGACATCAGAGACTACATAAAGGGGAAAGACCCTATAAGTGTGAAGAATGCGAGAAGAGCTTCAAACAGCGCTCT
GACCTCTTTAAACACCACAGAATCCACACTGGGGAGAAGCCCTATGGATGTTCCGTCTGTGGGAAACGCTTCAAT
CAGAGTGCAACCCTCATTAAACACCAGAGAATTCACACTGGGGAAAAGCCTTACAAATGTCTTGAATGTGGGGAA
AGATTTAGACAAAGTACACACCTTATCCGACACCAAAGAATTCATCAAAATAAAGTGCTGTGGCTGGGCGTGGT
GGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTGAGATCAGGAGTTTGAAACCAG
CCTGGCCAACATGGTGAAATTTCTGTCTCTACTAAAAATACAAAAATGAGCCGGGCATGGTGGTGATGCCTGTAA
GCCCAGCTATTCCGGGAGGCTGAGGTAGGAGAATCACTTGAACCCAGGAGGCGGAAGTTGCAGTGAGCTGAGATCA
TGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTCAAAAAAGAAATAAAGTGCTGTCAATTTTAT
ATGTT

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FIGURE 2341

MNCSLTAQRRGSDAELGPWVMAARSKDAAP SQRDGLLPVKVEEDSPGSWEPNYPAA SPDPETSRLHFRQLRYQEV
AGPEEALSRLRELCRRWLRPELLSKEQILELLVLEQFLTILPEELQAWVREHCPESGEEAVAVVRALQRALDGT S
SQGMVTFEDTAVSLTWEWERLDPARRDFCRESAQKDSGSTVPPSLESRVENKELIPMQQILEEAEPQGQLQEAF
QGKRPLFSKCGSTHEDRVEKQSGDPLPLKLENSPEAEGLNSISDVNKNCSI EGEDSKNNELQNSARCSNLVLCQH
IPKAERPTDSEEHGNKCKQSFHMTWHLKPHKSDSGDSFHSSLFETQRQLHEERP YKCGNCGKSFKQRSDFR
HQRHTGEKPYGCGECGKSFSQSAALTKHQRTHTGEKPYTCLKCGERFRQNSHLNRHQSTHSRDKHFKCEECGET
CHISNLFRHQRLHKGERPYKCEECEKSFKQRSDFKHHRIHTGEKPYGCSVCGKR FNQSATLIKHQRIHTGEKPY
KCLECGERFRQSTHLIRHQRIHQNKVLSAGRGG SRL

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FIGURE 2342

GGGCACAGCGGACACCAGGACTCCAAAATGGCCTCAGTTGGTGAGTGTCCGGCCCCAGTACCAGTGAAGGACAAG
AAACTTCTGGAGGTCAAAC TGGGGGAGCTGCCAAGCTGGATCTTGATGCGGGACTTCAGTCCTAGTGGCATTTC
GGAGCGTTTCAAAGAGGTTACTACCGGTACTACAACAAGTACATCAATGTGAAGAAGGGGAGCATCTCGGGGATT
ACCATGGTGCTGGCATGCTACGTGCTCTTTAGCTACTCCTTTTCCTACAAGCATCTCAAGCACGAGCGGCTCCGC
AAATACCACTGAAGAGGACACACTCTGCACCCCCCACCACGACCTTGGCCCGAGCCCCCTCCGTGAGGAACAC
AATCTCAATCGTTGCTGAATCCTTTCATATCCTAATAGGAATTAACCTCCAAATAAAACATGACTGGTAAAAAA
AA

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FIGURE 2343

MASVGECPAPVPVKDKKLEVKLGELPSWILMRDFSPSGIFGAFQRGYYRYN KYINVKKGSISGITMVLACYVL
FSYSFSYKHLKHERLRKYH

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FIGURE 2344

TCGCTCGCTCCTCCTTCGCTTCGCCTCGCCGCCGCCATGCAGGAAATCATCGCCAGCGTGGACCACATCAAGTTT
GACTTGGAGATCGCGGTGGAGCAGCAGCTGGGGGCGCAGCCGCTGCCCTTCCCCGGCATGGACAAGTCGGGCGCT
GCTGTCTGTGAATTCTTTTTGAAAGCTGCCTGCGGCAAAGGGGGCATGTGTCCGTTTCGCCACATCAGTGGTGAG
AAGACAGTTGTGTGCAAACACTGGCTGCGTGGCCTATGCAAGAAAGGGGACCAGTGTGAGTTCCTGCATGAGTAT
GACATGACCAAGATGCCCCGAGTGCTACTTCTACTCCAAGTTCGGGGAGTGCAGCAACAAGGAATGTCCCTTCCTG
CACATCGACCCCGAGTCCAAGATCAAGGACTGTCCCTTGGTATGACCGCGGCTTCTGCAAGCACGGTCCCTCTGC
AGGCACCGGCACACACGGAGAGTCACTGTGTGAATTACCTCGTGGGATTCTGCCCGGAGGGGCCCTCGTGTA
TTCATGCACCCTCGATTTGAACTGCCCATGGGAACCCAGCAGCCCCCACTGCCACAGCAGACACAGCCTCCA
GCAAAGCAAAGTAACAATCCGCCATTACAAAAGTTCCTCCTTGATCCAGTTAACGAGTCAGAACTCTTCTCCC
AATCAGCAGAGAACCCCGCAGGTTCATCGGGGTTCATGCAGAGTCAAACAGCAGCGCGGGCAACCGGGGACCCCGG
CCACTGGAGCAGGTACCTGTTACAAGTGTGGCGAGAAAGGACACTACGCCAACAGATGCACCAAAGGGCACTTG
GCCTTTCTCAGTGGACAGTGACAGCAGCTGGAGCCAGCTCCGAGCAGCCCGGGGGCCCCGCTGTTGGGAGTGTGC
ATTTAACTGTTTCATGCGCTTGTGGCGCGACTGTGGCTCGAGCTGGCCCGCAGACACGTGGGTTTCATCACTCT
GAGGGGCCACGTCCTGTTAGTTTCCTATCATTTTGCCGTAGTATTTTTTGAAAAGGGACATGTGTCTCTGTGGGTC
CCTGCAGTCGACATCATGTTTGGCTGGGCATCGATGCCTCCTTTCTGGGACTCCCGGCACAACCTCCCTCATCCA
GGGAGGGAGGCAGCTGCTGGGGAGGGGCTTGGCTAGGTAGTTCTGTGTGGCGGTGGTCATTCCCCTCATTAACA
CCAGTTCTTGGTGACGCCAGGGGCTGGTAGGTCATTCAAAGCTGTGGCCAGCTCACGCCTGCTTCCTCCCTCCCT
GCCCTGCTGAATCCTAAAGCTGTGCCTATATCTGTGATTGAATGAGGGAGCCCTTTGGGGCAAATTCAGGTGCC
CCCATTGCCTCAGGCTGGCCCTGGTCCCAGGTGGCAGCGGTTGAGGAGGGGTACAGGGCTCTCAAGCCTGAGGTT
TTCTTCTCTGGGCTTAATTTTCTCTTGGGGTACGTGCCTGACAGTGTTTAAGGTGTCCGTTGAACTGGAGTTGCA
GACTTTTAAATAGATGACCCCTTCAGATCATCTGTGCCTACCTCCTGCCCATCAGGCGTCTACACTGTCACTCAG
ACACCTGTGGCATGTGGAGGAGACTGCCCTGTCTGAGCCTGGAAAATGTGAACTGTCTCCTGCAACCTGCTGG
GCATGTGGGCCTGGCTGTGTTCAATTGCAAGAACAATTTTTATGAAATGGATTAAAGCTTGTTTTTT

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FIGURE 2345

MQEIIASVDHIKFDLEIAVEQQLGAQPLPFFPGMDKSGAAVCEFFLKAACGKGGMCPFRHISGEKTVVCKHWLRGL
CKKGDQCEFLHEYDMTKMPECYFYSKFGECSNKECPFLHIDPESKIKDCPWYDRGFCKHGPLCRHRHTRRVICVN
YLVGFCPEGPSCKFMHPRFELPMGTTEQPPLPQQTQPPAKQSNNPPLQRSSSLIQLTSQNSSPNQORTPQVIGVM
QSQNSSAGNRGPRPLEQVTCYKCGEKGHYANRCKGHLAFLSGQ

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FIGURE 2346

CTGAGGCGGGAGACCGGTGGTCTGCACCGTCCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGCCACTGGG
ATGTGTTTCGGGCTTTGGACCTTGAGGCCGGAGAGAGCTCCCGAGAGGAGGCGGCCACGTTTCGTTCTTCTGAGG
GGACGGTAGATTTGGGGGTTTTCTCTAGGATTCTCGCGCCGTTTTCTCTGAAGAAACAGGACCAGAGAGGGAAG
GTGACCTGAAAGTCACAGAATAATTTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAGAGACGAGAGATC
TTTCTGCTGTCTATACTCTTGAAAAGCACATCCTAAGATCTTTGCAGATTATCCTGTGGAAGGAAAATGCCTAAA
GTCAAAAGAAGCCGGAAGCACCCCCAGATGGCTGGGAGTTGATTGAGCCAACACTGGATGAATTAGATCAAAAG
ATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAAGAGGAAAGTGGAATCTCTGTGGCCCATCTTCAGGATCCAC
CACCAGAAAACCCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCATCAGCAGAGXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXACAAAAACCTGATTGCAAAATGGAAAAAGCAAGGATATGAGAACTTGTGCTGCCTG
CGGTGCATTACAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCCAAAGCAAGCTGGAAGTG
GGCCGCATCATCGAGTGACACACTGTGGCTGTCTGGCTGCTCTGGCTGAGGCTGGCGCGCTCCACCCTGGACT
CTGGACTTCGCAGTTCTGCTGCTGTCACGCCACCCCTTCCTGGGAGCAGCGAGCAGTGCCCCAGGCCCGAGTTG
GAGCACGGTCTCTATGGGAAGGCTTCGCTGTCTATCAGCTGTGATTGTAAAAATAAAATCTTTAAATCTCTCG

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FIGURE 2347

MPKVKRSRKAPPDGWELIEPTLDELDQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAISRXXX
XXXXXXXXXXXXKNLIAKWKQGYENLCCLRCIQTRDTNFGTNCICRVPSKLEVGRIIECTHCGCRGCSG

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FIGURE 2348

GGCACGAGGGAGCCCAGAGCCGGTTCGGCGCGTCGACTGCCAGAGTCCGCGGCCGGGGCGCGGGAGGAGCCAAG
CCGCCATGGCCTACCACAGCTTCCTGGTGGAGCCCATCAGCTGCCACGCCTGGAACAAGGACCGCACCCAGATTG
CCATCTGCCCCAACCAACCATGAGGTGCATATCTATGAAAAGAGCGGTGCCAAATGGACCAAGGTGCACGAGCTCA
AGGAGCACAACGGGCAGGTGACAGGCATCGACTGGGCCCCGAGAGTAACCGTATTGTGACCTGCGGCACAGACC
GCAACGCCTACGTGTGGACGCTGAAGGGCCGCACATGGAAGCCCACGCTGGTCATCCTGCGGATCAACCGGGCTG
CCCGCTGCGTGCGCTGGGCCCCCAACGAGAACAAGTTTGCTGTGGGCAGCGGCTCTCGTGTGATCTCCATCTGTT
ATTTTCGAGCAGGAGAATGACTGGTGGGTTTGCAAGCACATCAAGAAGCCCATCCGCTCCACCGTCTCTAGCCTGG
ACTGGCACCCCAACAATGTGCTGCTGGCTGCCGGCTCCTGTGACTTCAAGTGTGCGATCTTTTCAGCCTACATCA
AGGAGGTGGAGGAACGGCCGGCACCCACCCGTTGGGGCTCCAAGATGCCCTTTGGGGAACTGATGTTTGAATCCA
GCAGTAGCTGCGGCTGGGTACATGGCGTCTGTTTCTCAGCCAGCGGGAGCCGCGTGGCCTGGGTAAGCCACGACA
GCACCGTCTGCCTGGCTGATGCCGACAAGAAGATGGCCGTCGCGACTCTGGCCTCTGAAACACTACCACTGCTGG
CGCTGACCTTCATCACAGACAACAGCCTGGTGGCAGCGGGCCACGACTGCTTCCCGGTGCTGTTTACCTATGACG
CCGCCGCGGGGATGCTGAGCTTCGGCGGGCGGCTGGACGTTTCTAAGCAGAGCTCGCAGCGTGGCTTGACGGCCC
GCGAGCGCTTCCAGAACCTGGACAAGAAGGCGAGCTCCGAGGGTGGCACGGCTGCGGGCGCGGGCCTAGACTCGC
TGACAAGAACAGCGTCAGCCAGATCTCGGTGCTCAGCGGCGGCAAGGCCAAGTGTCTGCAGTTCTGCACCACTG
GCATGGATGGCGGCATGAGTATCTGGGATGTGAAGAGCTTGGAGTCAGCCTTGAAGGACCTCAAGATCAAATTGAC
CTGTGAGGAATATGTTGCCTTCATCCTAACTGCTGGGGAAGCGGGGAGAGGGGTCAGGGAGGCTAATGGTTGCTT
TGCTGAATGTTTCTGGGGTACCAATACGAGTTCCCATAGGGGCTGCTCCCTCAAAAAGGGAGGGGACAGATGGGG
AGCTTTTCTTACCTATTCAAGGAATACGTGCCTTTTTCTTAAATGCTTTCATTTATTGAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2349

MAYHSFLVEPISCHAWNKDRTQIAICPNNHEVHIYEKSGAKWTKVHELKEHNGQVTGIDWAPESNRIVTCGTDRN
AYVWTLKGRTWKPTLVILRINRAARCVRWAPNENKFAVGSGSRVISICYFEQENDWWVCKHIKKPIRSTVLSLDW
HPNNVLLAAGSCDFKCRIFSAYIKEVEERPAPTPWGSKMPPGELMFESSSSCGWVHGVCFSASGSRVAWVSHDST
VCLADADKKMAVATLASETLPLLALTFTDNLVAAGHDCFPVLFTYDAAAGMLSFGGRLDVPKQSSQRGLTARE
RFQNLDDKKASSEGGTAAGAGLDSLHKNSVSQISVLSGGKAKCSQFCTTGMDGGMSIWDVKSLESALKDLKIK

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FIGURE 2350

CAGCTTTCTCTCCTTTGAAAACACTAAGAATAATGTCACTGCATCAGTTTTTACTAGAGCCAATCACCTGTCATG
CCTGGAACAGGGATCGTACTCAGATTGCCCTCAGTCCCAATAATCACGAAGTGCACATCTATAAGAAGAACGGGA
GCCAGTGGGTGAAAGCTCATGAACTCAAGGAGCACAACGGACACATCACAGGTATTGACTGGGCTCCCAAGAGCG
ACCGCATTGTCACTTGTGGGGCAGACCGCAATGCCTATGTCTGGAGTCAGAAAGATGGTGTGTTGGAAGCCAACCC
TGGTGATCCTGAGAATTAATCGCGCAGCTACTTTTGTGAAGTGGTCCCCCTAGAGAACAAATTTGCTGTGGGAA
GTGGAGCACGACTCATTTCTGTTTGTACTTTGAGTCTGAAAATGACTGGTGGGTGAGCAAGCACATTAAAAAGC
CGATTCGCTCCACAGTCCTCAGCTTGGATTGGCATCCCAACAACGTTTTGCTGGCAGCAGGATCATGTGACTTCA
AATGCAGAGTGTCTTCTGCCTACATTAAAGAAGTGGATGAAAAGCCAGCCAGCACGCCCTGGGGCAGCAAGATGC
CTTTTGGGCAGCTGATGTCAGAGTTTGGTGGCAGTGGCACTGGTGGCTGGGTCCACGGGGTAAGCTTCTCTGCCA
GTGGGAGCCGCCTGGCCTGGGTGAGCCACGACAGCACCGTGTCTGTTGCTGATGCCTCAAAAAGTGTGCAGGTCT
CGACTCTGAAGACAGAGTTCTTGCCGCTCCTAAGTGTGTCAATTTGTCTCAGAGAACAGCGTCGTGGCTGCTGGCC
ATGACTGCTGCCCAATGCTCTTTAACTACGATGACCGCGGCTGCCTGACCTTCGTCTCCAAGTTAGATATTCCAA
AACAGAGCATCCAACGCAACATGTCTGCCATGGAACGCTTCCGCAACATGGACAAGAGAGCCACAACCTGAGGACC
GCAACACGGCCTTGGAGACGCTGCACCAGAAATAGCATCACTCAAGTCTCTATTTATGAGGTGGACAAGCAAGATT
GTCGCAAATTTTGCACTACTGGCATCGATGGAGCCATGACAATTTGGGATTTCAAGACCCTCGAGTCTTCCATCC
AGGGCCTCCGATAATGTGAAGCTGAGTG

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FIGURE 2351A

CTCCTCTGCTCCTCGAAGAAGGCCAGGGCGGGCGCTGCCGCAAGTTTTGACATTTTCGCAGCGGAGACGCGCGCGG
GCACTCTCGGGCCGACGGCTGCGGCGGGCGGCCACCCCTCAGAGCCCCCTTAGTCGCGCCCCGGCCCTCCCGCTGC
CCGGAGTCCGGCGGCCACGAGGCCAGCCGCGTCTCCCGCGCTTGCTCGCCCGGGCGGCCAGCCATGTCCCGG
GGGCCCCGAGGAGGTGAACCGGCTCACGGAGAGCACCTACCGGAATGTTATGGAACAGTTCAATCCTGGGCTGCGA
AATTTAATAAACCTGGGGAAAAATTATGAGAAAGCTGTAAACGCTATGATCCTGGCAGGAAAAGCCTACTACGAT
GGAGTGGCCAAGATCGGTGAGATTGCCACTGGGTCCCCCGTGTCAACTGAACTGGGACATGTCTCATAGAGATT
TCAAGTACCCACAAGAACTCAACGAGAGTCTTGATGAAAATTTTAAAAAATTCACAAAGAGATTATCCATGAG
CTGGAGAAGAAGATAGAATTGACGTGAAATATATGAACGCAACTCTAAAAAGATAACAAACAGAACACAAGAAT
AAATTAGAGTCTTTGGAGAAATCCCAAGCTGAGTTGAAGAAGATCAGAAGGAAAAGCCAAGGAAGCCGAAACGCA
CTCAAATATGAACACAAAGAAATTGAGTATGTGGAGACCGTTACTTCTCGTCAGAGTGAAATCCAGAAATTCATT
GCAGATGGTTGCAAAGAGGGCTCTGCTTGAAGAGAAGAGGCGCTTCTGCTTTCTGGTTGATAAGCACTGTGGCTTT
GCAAACACATACATTATTATCACTTACAGTCTGCAGAACTACTGAATTCCAAGCTGCCTCGGTGGCAGGAGACC
TGTTGTTGATGCCATCAAAGTGCCAGAGAAAATCATGAATATGATCGAAGAAATAAAGACCCCGAGCTCTACCCCC
GTGTCTGGAACCTCTCAGGCTTACCCATGATCGAGAGAAGCAATGTGGTTAGGAAAGATTACGACACCCCTTTCT
AAATGCTCACCAAAGATGCCCCCGCTCCTTCAGGCAGAGCATATACCAGTCCCTTGATCGATATGTTTAATAAC
CCAGCCACGGCTGCCCCGAATTCACAAAGGGTAAATAATTCAACAGGTACTTCCGAAGATCCAGTTTACAGCGA
TCAGTTTCGGTTGCAACGGGACTGAACATGATGAAGAAGCAGAAAGTGAAGACCATCTTCCCGCACACTGCGGGC
TCCAACAAGACCTTACTCAGCTTTGCACAGGGAGATGTCATCAGCTGCTCATCCCCGAGGAGAAGGATGGCTGG
CTCTATGGAGAACACGACGTGTCCAAGGCGAGGGGTTGGTTCCCGTCGTCGTACACGAAGTTGCTGGAAGAAAAT
GAGACAGAAGCAGTGACCGTGCCACGCCAAGCCCCACACCAGTGAGAAGCATCAGCACCGTGAACCTGTCTGAG
AATAGCAGTGTGTTCATCCCCCACCAGCTACTTGGAAATGCTTGTCCATGGGGGCGAGCTGCCGACAGGAGAGCA
GATTCGGCCAGGACGACATCCACCTTTAAGGCCCCAGCGTCCAAGCCCCGAGACCGCGGCTCCTAACGATGCCAAC
GGGACTGCAAAGCCGCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAACTCCGCCCGACTGTGACGAAT
GATCGCTCGGCACCCATCATTCGATGAGAGGACAGCCAAGGACTCTCCCGGGCTCTCCGGTTCTCCCTTGCGGA
ATGATGGGCGCATCTGTCTGCCACGTGCTGACGGTCGGGAAGCTTCAGTGGAGAGGCCCTAACTCTAATGTGCGC
TGCTTAAGCAAATCATGCTTCTCTGTTTACGTTAGTTGGGTTGACAAGTTTCTGCCTTTAAGATAAATGAGTAAT
AGTCTAATGACCAGCTCAGCCATTTAAATATTTTCTTCTTCTGTTCAAGAAACAGTAACTTGGTTTCAAT
CTTTACTGTATTTTTTAAATGAATTTTTTCTTAAATAACAGCCAGAATAAGGGATAGTCTATGCTTTCAGGACTG
GCTTTCTGCACCTGATATGAATGAGACCAGTTTTATTTTATAAAGCATGTGCTCTTAATAGCATTATGTCTAAAG
AAGATATCACGTAAGTTTGCATCTTAGCATGCAAATCATAATTTTAAAGCAATATAAATTATGAAAATACTATATA
AATGTAATTTAACTTAAATGTTTAAAGTGTAGAGCTTCCAGAGATGGAGAAACCCCAACCTCCCTCCAACCACG
CCAGAGCTGTAGAGTGCTAAGACGCTTTCGCTGCCCCATCACAGCCACACGTAGCACTCGACGAAATCTCCTCC
GAGAGCTCCTTTTCTTGGTAGTTAGGAGTCGCCAACGGATTCGCTGCACACGGCCCATCCAGGACACAGGCCTGG
GCGTCGGAGTCACGGCTCCTTGTGTTCTCACTCAGCTAGTTGGCCAAAGCTGCATCCATTACCAGTACACTCAAA
CTGCTCGGGTCTGTTTCTCCGTGTTTGAATCAGGTACAGACTCTCAAAGGATACGTGTAAAGCCAGGATGAC
CTCTGGTGCCTGGAGAAGGGCGGGTTTTTCAGCCTAGCAGCCATGATGCCCTCGGAACCTGGCCCTATGGTATGG
ATGTGAGGACTACGCACTGGCTGCCCTGAGCCCCGGGGCTGGAAATCATCTTTGGCTGCCAAGGATCTGGACCTAT
TTTGGAGTGGAGAGTCATGGTTAAAATTCCCAGCCCCGGCCAGGTACGGGAATCCCAGCATTTTGTGAGGCCGAG
GCAGGGGGATCACCTGAGGTGAGGAGTCTCTACTAAAAATACAAAAATTAGACAGGTGTGGTGGTGGGCGCCACT
CAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCAGATCATGCTGCTGCACT
CCAGCCCCGGCGCTCACCCTGTGTGTTGCTGGGTGCTGGGGCTGTGACTTATCCCCCTCTCCTTTAGCCTTGCCAT
AAGTGTAGTATCCTATGAGGCTGAGATTGGGAAAGGTTACATGCAGGTAAGCCAGTGGACGTGGCCGATGCTTCA
GGCTCCTTCCAGCCAGGTCCAGCAGTGTTACCATCTGCTTCTCCTGGGAGGACAAACCAGGCACCCCCACCATGA
AGGGGCTGCAGGCACCATGAACTATGTTAACAACCCCACTGTGACTACAGAAAGGGCTGCAGCCACATGAGAAT
TCAGTCCACACAAGCCCCATGGCCGTGTTCCCCACTTCAGCCACAGGGCTCAGGGAGCCCCATCTGGCGCTAAGG
GGAAGTGTGGGGTGTGGGTGACACCTGGCCTTTGGCGTTCTGCCTTGGGGAGGTTTCTGGTTTTGTACGGGGT
GGAAGAATAGGACCTGGGGTCTCGGATGCAACCTGCAGACCCCGTGGCTCACCAACCCAGGTTCTGCCTCCC
AGACCAGAACGGGCATGGCCTGGTCCTTGGCACCGAGGTGCCTGCTGTAAATATCAAGGGATTACAACCTTAA

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FIGURE 2351B

TAATAAAGCAGAACTTG

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FIGURE 2352

GGCGGTTGGCAAGAACAAGCGCCTTACGAAAGGCGGCAAAAAGGGAGCCAAGAAGAAAGTGGTTGATCCATTTTC
TAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAAGAAATATTGGAAAGACGCTCGTCACCAG
GACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGAAGTGAGTCTTGCTGATTTGCAGAA
TGATGAAGTTGCATTTAGAAAATTCAGGCTGATTACTCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAA
CAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGATGATCGAAATCAT
GACCCGAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTGATTCCAGACAGCATTGGAAAAGACAT
AGAAAAGGCTTGCCAGTCTATTTATCCTCTCCATGATGCTTCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAA
GTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGGAAAAGCCACTGGGGACGAGACAGG
TGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAGTCCAAGAATCTGTTTAAAGTTCAGACTTCAAATAGTG
GCAAATAAGAGTGCTATTTGTGAAAAAAAAAACAAAAAAAAA

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FIGURE 2353A

CGCAGTGCTGCTGGGGCATTGCCTGTGACAACCAGGTCTACGTGTATGTGTGTGCCAGCGATGTCCCCATCCGCC
GCCGAGAGGAGGCCTATGAGAATCAGCGCTGGAATCCCATGGGCGGCTTCTGTGAGAAGCTCCTGCTGAGTGACC
GCTGGGGGTGGAGTGACGTGAGTGGGCTCCAGCACCGGCCGCTGGACAGGGTGGCACTGCCCTCGCCGCACTGGG
AGTGGGAGTCTGACTGGTACGTGGATGAGAATTTTGGAGGTGAACCCACTGAGAAAGGGGGGTGGACGTACGCCA
TCGACTTTCCCGCCACCTACACGAAAGACAAGAAGTGAATTTCTGTGTGCGGCGCCGGAAGTGGATCCGGTACA
GGAGATAACAAGTCCCGGGACATCTGGGCCAAGATCCCCTCGAAGGATGACCCCAAGGAGCTGCCCGACCCCTTCA
ACGACCTCTCTGTAGGGGGCTGGGAGATCACGGAGGAGCCTGTGGGCCGCCTGTGAGTGTGGGCTGTGTCTCTGC
AGGGCAAGGTGTGGTACAGAGAGGACGTACGCCACTCCAACCCCGAAGGGTCCTCCTGGTCCCTGCTGGACACCC
CCGGGGAGGTGGTTTACATCAGCTGTGGGCCCCACGACCTCCTGTGGGCCACACTCTGGGAGGGACAGGCCCTGG
TCCGGGAAGGAATCAACAGGAGCAATCCCAAAGGAAGTTTCTGGTCCATCGTGGAGCCTCCTGGATCTGAAAACG
GGGTCAATGCACATCTCGGTGGGAGTCAGCGTGGTCTGGGCTGTACCAAGGACTGGAAGGTGTGGTTCCGAAGAG
GCGTCAACTCTCACAATCCCTGCGGCACCAAGTTGGATTGAGATGGTTGGTGGATGACGATGGTGAACGTGGGAA
TGAACGACCAGGTGTGGGGCATTGGCTGTGAGGACCGAGCCGTGTAATTCGGCAGGGTGTACCCCCAGCGAGC
TCAGTGGGAAGACCTGGAAAGCCATCATCGCGGCCGAGAGTGTGACCGGTACACTCTGGCAGCTCGTCTAGTC
TCCTCAGTGCCGGCTGCTTCTTCGGTGATGAGGTGAGGGGTAGTGGCGAGTCTGCCCCAGCGACACCGATGCCT
CCTCGGAAGTGCAGAGACCAGGGCCTGGCCAGATTCTCCCTGCAGAACCTCTAGACGATTCCAAGAATGCCACAG
GGAATCAGCCTCAGGCCTGGGGGCTGGCAGGACCGCAGAAGATAACCGTGAAGATGCCTGCCAGCCGAGGGCA
GCAGGGAGGCCAGACCCAACACGCACCCCGGCCGGCCCCACCCCGGCCGAGCTGCCCTGGACCAATATTGACC
TCAAGGAGGCCAAGAAAGTGGCCAGCCACTCGGCCGTGGCTTCCCCGAGACCACAGCCTCTCCTCTCTGGGGC
TCCTCCCCTGCGGCTTGGAGGAGCCGTATGGGGTGGATGACCACCCGTGTGGGCCTGGGTGTGGGAGGCGGCT
GCGTGGTGGAGGCATGTGCCATGCCAGATGGTTCACTGTCCAGGCGGGCCTGTCTCCTCGGTACACATGCTGT
CCCTGTCCATCACGCCGGCCAGACCGCTGCCTGGAGGAAGCAGATCTTCCAGCAGCTCACGGAAGGACCAAGC
GGGAGCTGGAGAATTCAGACACTACGAGCAGGCCGTGGAGCAGTCGGTGTGGGTGAAGACCGGGGCGCTGCAGT
GGTGGTGCAGCTGGAAGCCCCACAAGTGGGTGGACGTGCGCTTGGCCCTGGAGCAGTTACGGGGCACGACGGCG
TCCGGGACAGCATCTCTTCACTACTATGTGGTCCACGAGGAGAAGAAGTACATCCACATATTCTGAATGAGG
TGGTGGCGCTGGTCCCAGTGCTGAACGAGACCAAGCACTCCTTTGCCCTGTACACCCCTGAGCGGACACGGCAGA
GGTGGCCGGTGCCTGTGGCTGCTGCCACCGAGCAGGACATGAATGACTGGCTCGCCCTGCTCAGCCTGTCTTGCT
GCGAGAGCCGGAAGGTGCAGGGCCGCGCTCCCCGAGGCCATCTGGTCCATCACCTGCAAGGGGGACATCTTCG
TGAGCGAGCCCAGCCAGACCTGGAGGCCACGAGCACCCCTGCCCTGCGACCAGATGTTTTGGCGGCAGATGG
GAGGCCACCTGCGGATGGTGGAGGCCAACAGCCGGGGCGTGGTGTGGGGCATCGGCTATGACCACACGGCCTGGG
TATACACAGGCGGCTATGGAGGCGGCTGCTTCCAAGGCCCTGGCCAGCAGCACCAGTAACATCTACACGCAGTCAG
ACGTGAAGTGTGTTACATCTATGAGAACCAGCGCTGGAACCCCGTACAGGCTACACCAGCAGGGGTCTGCCCA
CGGACCGGTACATGTGGAGCGATGCCTCGGGGCTGCAGGAGTGCACGAAGGCTGGCACGAAGCCCCCGTCCCTGC
AGTGGGCTGGGTTTCCGACTGGTTCTGTGATTTCAGCGTTCCGGGGGGCACGGACCAGGAGGGGTGGCAGTATG
CCAGCGACTTCCCTGCCTCATAACCATGGGTCCAAAACGATGAAGGATTTTGTGAGGAGGAGGTGCTGGGCCAGAA
AATGCAAGCTGGTGACCAAGTGGGCCCTGGCTGGAGGTGCCCCCATCGCCCTCAGGGACGTGTCCATCATCCCGG
AGAGCCCCGGGTGCCGAGGGGAGTGGGCACAGCATCGCCCTCTGGGCCGTACGCGACAAGGGGGATGTGCTGTGCC
GCCTGGGCGTGTGCGAGCTCAACCCTGCGGGCTCCTCCTGGCTGCACGTTGGCACCGACAGCCCTTCGCCTCCA
TCTCCATCGGGGCTGCTACCAGGTGTGGGCCGTGGCAAGGGACGGCTCCGCCTTCTACCGGGGATCCGTGTACC
CCTCGCAGCCAGCCGGTACTGCTGGTACCACATCCCGTCCCCACCGAGACAGAGGCTGAAGCAGGTGTCCGCGG
GGCAGACGTGGTGTATGCCCTGGATGAGAATGGAACCTGTGGTATCGCCAAGGGATCACGCCAGCTACCCGC
AGGGCTCCAGCTGGGAGCACGTGTCCAACAACGTGTGCCGAGTGTCCGTGGGGCCCCCTGGACCAGGTCTGGGTGA
TCGCCAACAAAGTGCAGGGCAGCCACAGCCTGAGCCGGGGGACAGTGTGTATCGCACCGGCGTGCAGCCTCACG
AGCCCAAGGGCCACGGCTGGGACTACGGCATCGGGGGAGGCTGGGACCATATCTCTGTCCGGGCCAATGCCACCA
GGGCCCCCGGAGCTCGTCCCAGGAGCAGGAGCCGAGTGCCCCACAGAGGCCCATGGCCCCGTCTGCTGCTGAG
GCCCCCCCCACACCTACATGCAGGGACGGTGGCCAGTTTGGGGGATCAAGGCTGAGCCATTCTTGTGCTGGAGT
GTGCACCGTGGGAGCAATGTGGCCCAGGTGGACTCAGGAGGGAACCTGGCCCCAAGGCTGCGGCCACTTCAGAGG
CACTGGCTGAGACGGCCCTGAAATGTGAAGCTCCGCGGACACTCCACACGCTGTCCCGTCTGCGAGGAGTCCCCG

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FIGURE 2353B

GGGTGTGGGGCATGGGGTGGGGCTGCACCTCCCAGAGGCCCTCCCACCCTTCCCTTCCCCCTCTCCCTTCTGCCT
TTCCAGGACTAGAACCGGGAACCTGGAGCCCTCCGGGAACGCCGGCCCTGGGGCAGCAGAGCCAGGATGGAGCCC
TCCTGAGCTGGCATCTCAGACAGCACCCGGGCCCCGCCACCCCTCACCAAGAGAGATGGCCATGGGGCTCAGGGCC
TCTTTACCATGTGCAGTGACCATTCTCAGAGCAGGACTTGCAAAGAGGCTTTAATTTCAAAAGTGAAGGAAGGA
GGCCAGGCGCCGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACCTAGGTCAAGA
GTTTCAAACCAGACGGGCCAACATGGTGAAACCCCATCTCTGCTAAAAATACAAAAAAAAAAAAATTAGCTGGGC
ATGGTGGTGGGTGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCGGAG
GCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGACTCCATCTC

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FIGURE 2354

MGWGCTSQRLPPFFPSPLPSAFPGLEPGTWSPPGTPALGQQSQDGALLSWHLRQHPGPPPLTKRDGHGAQGLFTM
CSDHFSEQDLQRGFNFKSEGRRPGAVAHACNPSTLGG

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FIGURE 2355

AAACTTCCCGCACGCGTTACAGGAGCCAGGTCGGTATAAGCGCCAGCGGCCTCGCCGCCCGTCAAGCTGTCCACA
TCCCTGGCCTCAGCCCGCCACATCACCTGACCTGCTTACGCCCAGATTTTCTTCAATCACATCTGAATAAATCA
CTTGAAGAAAGCTTATAGCTTCATTGCACCATGTTGGCATTGTTGGGCGCTGTTTGGCAGTGATGATTGCCTTTCT
GTTCAAGTGTCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATAC
ACCAACTGCTGCTTTGGATTTCACCGGTTGGCGGTAGTTGACCCGCTGTTTGGAAATGCAGCCAATTCGAGTGAAG
AAATATCCGTATTTGTGGCTCTGTTACAATGGTGAAATCTACAACCATAAGAAGATGCAACAGCATTTTGAATTT
GAATACCAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGT
ATGTTGGATGGTGTGTTTGCATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTTCTGGGTAGAGATACATAT
GGAGTCAGACCTTTGTTTAAAGCAATGACAGAAGATGGATTTTTGGCTGTATGTTTCAAGCTAAAGGTCTTGTT
ACATTGAAGCACTCCGCGACTCCCTTTTTTAAAGTGGAGCCTTTTCTTCTGGACACTATGAAGTTTTGGATTTA
AAGCCAAATGGCAAAGTTGCATCCGTGGAAATGGTTAAATATCATCACTGTCTGGGATGAACCCCTGCACGCCCTC
TATGACAATGTGGAGAACTCTTTCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAAT
AATGCTGTAAAGAAACGTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTG
GTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATG
GAAGACAGCCCCGATTTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTT
AACTCTGAGGAAGGCATTAGGCTCTGGATGAAGTCATATTTCTTGGAACTTATGACATTACAACAGTTCGT
GCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTCGGAAGAACACAGATAGCGTGGTGATCTTCTCTGGAGAA
GGATCAGATGAACCTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCCTGAAAAAGCCGAGGAGGAGAGT
GAGAGGCTTCTGAGGGAACCTATTTGTTTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAA
CTGAGAGTCCCATTTCTAGATCATCGATTTTCTTCTTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAG
AATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGAGGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGA
CCAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCTGGTTTAAGATTTTACAGGAATACGTTGAA
CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGA
TATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAG
TGGATCAATGCCACTGACCCTTCTGCCCGCACGCTGACCCACTACAAGTCAGCTGTCAAAGCTTAGGTTGGTCTTT
ATGCTGTAATGTGAAAGCAAATATTTCTTCGTGTTGGATGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCA
ACTCAGGCTAACTTGGGTGTGAAAAAATAAAAGTCCTAAATCT

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FIGURE 2356

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNCCFGFHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRDITYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDPNGKVASVEMVKYHHRDEPLHALYDNVEKLFPG
FEIETVKNNLRILFNNAVKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSGEGSDELTQGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTKEGYYYRQVFERH
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

FIGURE 2357

[illegible]

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FIGURE 2358

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNCCFGFHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFVLLDTANKKVFLGRDTYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVLDLKPNGKVASVEMVKYHHCRCDEPLHALYDNVEKLFPG
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVFSGEGSDELTQGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFFNTPKTKEGYYYRQVFERH
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

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FIGURE 2359

CCTGGCTGGGACGGAAAGTTGCACCACAAGTACAATTAGTTTCAGTTTTGTTTTCTTTTCCAGGCACCCAGCAACGG
CGGCCTCCAGGCCTCAGGCCCCCTCACCATCCTAGAGGTCAAGATCAGCTCTGGCTAGTTCTCACAGGTCTGACC
CAACAAGTAGCACTGACATTTTTTACGTTTGCTGGATGTACACACGGAAGTGGAGGAGGAGGAGGAGAAGGAGGAG
GGCAGCTCCTTAGCTCAAGAGCAAGTGGCCCCAAGGCCTCAGAAGACTAGAAGGAAGTTCTGGCCATTGAGCATG

GTTTCCACGGGTCTCGCCCTCCCTCCTGGAGGCCCTGAGCAGCGACTTCCTGGCCTGTAAATCTGCCTGGAG
CAGCTGCGGGCACCCAAGACACTGCCCTGCCTGCATACCTACTGCCAAGACTGCCTGGCACAGCTGGCGGATGGC
GGCCGCGTCCGCTGCCCCGAGTGCCGCGAGACAGTGCTGTGCCGCCGAGGGTGTGGCCTCCTTCAAGACCAAC
TTCTTCGTCAATGGGCTGCTGGACCTGGTGAAGGCCCGGGCCTGTGGAGACCTGCGTGCCGGGAAGCCAGCCTGT
GCCCTGTGTCCCTGGTGGGTGGCACCAGCACCGGGGGGCCGCCACGGCCCGGTGCCTGGACTGTGCCGATGAC
TTGTGCCAGGCCTGTGCCGACGGGCACCGCTGCACCCGCCAGACCCACACCCACCGCGTGGTGGACCTGGTGGGC
TACAGGGCCGGGTGGTATGATGAGGAGGCCCGGGAGCGCCAAGCGGCCAGTGTCCCCAGCACCCCGGGGAGGCA
CTGCGCTTCTGTGCCAGCCCTGCTCAGATTGCTGTGCAGAGAGTGCCGCTAGACCCCCACCTGGACCACCCC
TGCTGCCTCTGGCTGAAGCTGTGCGTGCCCGGAGGCCGGCCTGGAGGGACTGCTGGCCGGTGTGGACAATAAC
CTGGTGGAGCTGGAGGCAGCGCGGAGGGTGGAGAAGGAGGCGCTAGCCCGCTGCGGGAGCAGGCGCCCCGGGTG
GGGACTCAGGTGGAGGAGCGGCTGAGGGCGTCTCCGGGCCCTGCTGGCCAGAAGCAGGAGGTGCTGGGGCAG
CTACGAGCCACGTGGAGGCTGCCGAAGAAGCTGCTCGGGAGAGGCTGGCGGAGCTTGAGGGCCGGGAGCAGGTG
GCCAGGGCCGACCGCCTTCGCCCGCCGGGTACTCAGCCTGGGGCGAGAGGCCGAGATCCTCTCCCTGGAAGGG
GCGATCGCACAGCGGCTCAGGCAGCTGCAGGGCTGCCCTGGGCACCAGGCCCGGCCCTGCCTGCTCCACAG
CTGGAGCTCCATCCTGGGCTCCTGGACAAGAACTGCCACCTTCTTCGGCTGTCTTTGAGGAGCAGCAGCCCCAG
AAGGATGGTGGGAAAGACGGAGCTGGTACCCAGGGAGGTGAGGAGAGCCAGAGCCGGAGGGAGGATGAGCCGAAG
ACTGAGAGACAGGGTGGAGTCCAGCCCCAGGCTGGAGATGGAGCCCAGACCCCAAAGAGGAAAAAGCCCAGACA
ACCCGAGAAGAGGGAGGCCAGACCTTGAGGAGGACAGGGGCCAGACACCCACAGAGATGGAGGACCCAGCCC
CACAGGGGTGGCAGACCCAACAAGAAGAAAAAGTTCAAAGGCAGGCTCAAGTCAATTTCCCGGGAGCCAGCCCA
GCCCTGGGGCCGAATCTGGACGGCTCTGGCCTCCTCCCCAGACCCATCTTTTACTGCAGTTTCCCCACGCGGATG
CCTGGAGACAAGCGGTCCCCCGGATCACCGGGCTCTGTCCCTTCGGTCCCCGGGAGATCCTGGTGGCGGATGAG
CAGAACCAGGGCACTGAAACGCTTCTCCCTCAACGGCGACTACAAGGGCACCGTGCCGCTCCCTGAGGGCTGCTCC
CCTTGACGCTGGCCGCCCTGCAGAGCGCGGTGGCCTTCTCCGCTAGCGCACGGCTCTATCTCATCAACCCCAAC
GGCGAAGTGCAGTGGCGCAGGGCCCTGAGCCTCTCCAGGCCAGCCACGCGGTGGCGGCACTGCCTAGCGGGGAC
CGCGTGGCTGTGACGCTGGCGGGCCACGTGGAGGTGTACAATATGGAAGGCAGCCTGGCCACCCGGTTTCTTCT
GGAGGCAAGGCCAGCCGGGGCCTGCGGGCGCTGGTGTCTTGACCACAGCCCCAGGGGCATTTCTGTTGGGTGCG
GACTGGCAGCAGAATAGTGTGGTAATCTGTGATGGGCTGGGCCAGGTGGTTGGGGAGTACAAGGGGCCAGGCCTG
CATGGCTGCCAGCCGGGCTCCGTGTCTGTGGATAAGAAGGGCTACATCTTTCTGACCCTTCGAGAAGTCAACAAG
GTGGTGATCCTGGACCCGAAGGGGTCCCTCCTTGAGACTTCTTGACAGCCTACCACGGCCTGGAAAAGCCCCGG
GTTACCACCATGGTGGATGGCAGGTACCTGGTGTGCTCCCTCAGTAACGGGACCATCCACATCTTTCGGGTCCGT
TCTCCGGACAGTTAAAGGGGCTAGGACTAGGGTGAGAGGGAGTGGGGAGGGAGAGGGCAGGAAGGAGGCAGAGCT
GTCCGTGGGAGGTGGAGGCCGAGGACATTTTCTGAAGGGCAGGGGTGGCAACTTTTCAACATGGAGTGCCAAA
CTGCTAACCCGTCTTCTAGTGTGTGAGAATAGGGACCAAGGTGGTGGCGTGACCTTAACTCTCAGAAGCAGAGGA
GGCAGGTGGGTGGAGGGGATGCTGGGAGTTACCTGCCTCTTGCTTTTGTGGGTGGCTGCTGCCACCACCGCC
GCTGCTATATAGTTTAGGTTTCTGAGGTTTGTGAGCCTGTCTTGCTTTTGATTCTTCAAACCATTCCTGATAGA
GTAGCCGAGGAGAGTCTTGGGGCCAAGAAGGGCCAGGGTGGGTGAGGCGTGTGCACTGTGGAACAGAGCTGAG
ACCCCGCCCCCTTGACTGGCACAGGGTCTACAGAGTCAGAGGAGGCCTGAGATTTTGAATGGGCAGTGAAT
GGCCTCTTCTGCCAGCCACAGGCAGGATGCTCCTTGATCACGGCATCCCCCGGCGGTAGTACAGGGTGAGCTTGC
AGGAGGGTCTGCAAGTGCAGACAGCAGCTGGGGCCAAAGAGGTGTTAGGTTCAAAGGCTGCGAAGAGAATAGGCT
ACTGGAAAACCAAACCAACAGAATTACGTCCAAAAATCCACATTCTCCATCGCTTCTCAGCCTTTTGGCTAAG
ATTAAGTATTAAAAAAAACCAGGCTCTGCCAGGCGCAGTGCTCATGCCTATAATCCCGGCACTTTGGGAGTCT
GTGGCAGGAGGATTGCTTGAGGCCAGGAGTTTGGAGACCAGCCTGGGCAACATAGCGAGACCCCATCTCTACAAAA
GATTAAAAATTAGCTGCGTGTAGTAGCATATGCCTTTCAACGTAGCTACTCAGGAGGCTGAGGTGGGAGGATCCC
TTGAGCCGAGGAGTTTGGTCTGCACTGAGCTATGATCGCACCACTGCATTCCAGACCCCATCTCG

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FIGURE 2360

MVSHGSSPSLLEALSSDFLACKICLEQLRAPKTLPLCLHTYCQDCLAQLADGGRVRCPECRETVPVPPEGVASFKT
NFFVNGLLDLVKARACGDLRAGKPACALCPLVGGTSTGGPATARCLDCADDLCQACADGHRCTRQTHTHRVDLV
GYRAGWYDEEARERQAAQCPQHPGEALRFLCQPCSQLLCRECRLDPHLDHPCLPLAEAVRARRPGLEGLLAGVDN
NLVELEAARRVEKEALARLREQAARVGTQVEEAAEGVLRALLAQKQEVLGQLRAHVEAAEEAARERLAELEGREQ
VARAAAFARRVLSLGREAEILSLEGAIAQRLRQLQGCPWAPGPAPCLLPQLELHPGLLDKNCHLLRLSFEEQQP
QKDGGKDAGTQGGEESSSRREDEPKTERQGGVQPQAGDGAQTPKEEKAQTTREEGAQTTLEEDRAQTPHEDGGPQ
PHRGGRPNKKKKFKGRLKISREPSPALGPNLDGSGLLPRPIFYCSFPTRM PGDKRSPRITGLCPFGPREILVAD
EQNRALKRFSLNGDYKGTVPVPPEGCSPCSVAALQSAVAFSASARLYLINPNGEVQWRRALSLSQASHAVAALPSG
DRVAVSVAGHVEVYNMEGSLATRFIPGGKASRGLRALVFLTTSPQGHFVGSDWQQNSVVICDGLGQVVGEYKGP
LHGCQPGSVSVDKKGYIFLTLREVNKVVILDPKGSLLGDFLTAYHGLEKPRVTTMVDGRYLVVSLSNGTIHIFRV
RSPDS

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FIGURE 2361

GAATTCTGCAGCTCAGCAGCCGCCGAGCAGGACGAACCGCCAATCGCAAGGCACCTCTGAGAACTTCAGG
ATGCAGATGTCTCCAGCCCTCACCTGCCTAGTCCTGGGCCTGGCCCTTGTCTTTGGTGAAGGGTCTGCTGTGCAC
CATCCCCATCCTACGTGGCCACCTGGCCTCAGACTTCGGGGTGAGGGTGTTCAGCAGGTGGCGCAGGCCTCC
AAGGACCGCAACGTGGTTTTCTCACCTATGGGGTGCCCTCGGTGTTGGCCATGCTCCAGCTGACAACAGGAGGA
GAAACCCAGCAGCAGATTCAAGCAGCTATGGGATTCAAGATTGATGACAAGGGCATGGCCCCCGCCCTCCGGCAT
CTGTACAAGGAGCTCATGGGGCCATGGAACAAGGATGAGATCAGCACCACAGACGCGATCTTCGTCCAGCGGGAT
CTGAAGCTGGTCCAGGGCTTCATGCCCCACTTCTTCAGGCTGTTCCGGAGCACGGTCAAGCAAGTGGACTTTTCA
GAGGTGGAGAGAGCCAGATTATCATCAATGACTGGGTGAAGACACACAAAAGGTATGATCAGCAACTTGCTT
GGGAAAGGAGCCGTGGACCAGCTGACACGGCTGGTGCTGGTGAATGCCCTCTACTTCAACGGCCAGTGGAAGACT
CCCTTCCCCGACTCCAGCACCCACCGCCGCTCTTCCACAAATCAGACGGCAGCACTGTCTCTGTGCCCATGATG
GCTCAGACCAACAAGTTCAACTATACTGAGTTTACCACGCCCCGATGGCCATTACTACGACATCCTGGAAGTCCCC
TACCACGGGGACACCCCTCAGCATGTTTATTGCTGCCCTTATGAAAAAGAGGTGCCTCTCTGTGCCCTCACCAAC
ATTCTGAGTGCCAGCTCATCAGCCACTGAAAGGCAACATGACCAGGCTGCCCCGCTCCTGGTTCTGCCCAAG
TTCTCCCTGGAGACTGAAGTCGACCTCAGGAAGCCCCTAGAGAACCTGGGAATGACCGACATGTTTACAGACAGTTT
CAGGCTGACTTTCAGAGTCTTTCAGACCAAGAGCCTCTCCACGTCGCGCAGGCGCTGCAGAAAGTGAAGATCGAG
GTGAACGAGAGTGGCACGGTGGCCTCCTCATCCACAGCTGTCATAGTCTCAGCCCGCATGGCCCCCGAGGAGATC
ATCATGGACAGACCCTTCTCTTTGTGGTCCGGCACAACCCACAGGAACAGTCCTTTTTCATGGGCCAAGTGATG
GAACCCTGACCCCTGGGGAAAGACGCCTTCATCTGGGACAAAACCTGGAGATGCATCGGGAAAGAAGAACTCCGAA
GAAAAGAATTTTAGTGTTAATGACTCTTTCTGAAGGAAGAGAAGACATTTGCCTTTTGTAAAGATGGTAAACC
AGATCTGTCTCCAAGACCTTGGCCTCTCCTTGGAGGACCTTTAGGTCAAACCTCCCTAGTCTCCACCTGAGACCCT
GGGAGAGAAGTTTGAAGCACAACCTCCCTTAAGGTCTCCAAACCAGACGGTGACGCCTGCGGGACCATCTGGGGCA
CCTGCTTCCACCCGTCTCTCTGCCACTCGGGTCTGCAGACCTGGTTCCCACTGAGGCCCTTTGCAGGATGGAAC
TACGGGGCTTACAGGAGCTTTTGTGTGCCTGGTAGAACTATTTCTGTTCCAGTCACATTGCCATCACTCTTGTA
CTGCCTGCCACCGCGGAGGAGGCTGGTGACAGGCCAAAGGCCAGTGGAAGAAACACCCTTTTCATCTCAGAGTCCA
CTGTGGCACTGGCCACCCCTCCCCAGTACAGGGGTGCTGCAGGTGGCAGAGTGAATGTCCCCCATCATGTGGCCC
AACTCTCCTGGCCTGGCCATCTCCCTCCCCAGAAACAGTGTGCATGGGTTATTTTGGAGTGTAGGTGACTTGTTT
ACTCATTGAAGCAGATTTCTGCTTCCTTTTATTTTATAGGAATAGAGGAAGAAATGTCAGATGCGTGCCAGCT
CTTACCCCCCAATCTCTTGGTGGGGAGGGGTGTACCTAAATATTTATCATATCCTTGCCCTTGAGTGCTTGTTA
GAGAGAAAGAGAACTACTAAGGAAAATAATATTATTTAACTCGCTCCTAGTGTTCCTTTGTGGTCTGTGTACC
GTATCTCAGGAAGTCCAGCCACTTGACTGGCACACACCCCTCCGGACATCCAGCGTGACGGAGCCACACTGCCA
CCTTGTGGCCGCTGAGACCCTCGCGCCCCCGCGCCCCCGCGCCCTCTTTTTCCCTTGATGGAATTGACC
ATACAATTTTCATCCTCCTTCAGGGGATCAAAAGGACGGAGTGGGGGACAGAGACTCAGATGAGGACAGAGTGGT
TTCCAATGTGTTCAATAGATTTAGGAGCAGAAATGCAAGGGGCTGCATGACCTACCAGGACAGAACCTTCCCCAA
TTACAGGGTGACTCACAGCCGATTGGTGACTCACTTCAATGTGTCAATTTCCGGCTGCTGTGTGTGAGCAGTGGA
CACGTGAGGGGGGGGTGGGTGAGAGAGACAGGCAGCTCGGATTCAACTACCTTAGATAATATTTCTGAAAACCTA
CCAGCCAGAGGGTAGGGCACAAGATGGATGTAATGCACTTTGGGAGGCCAAGGCGGGAGGATTGCTTGAGCCCA
GGAGTTCAAGACCAGCCTGGGCAACATACCAAGACCCCGTCTCTTTAAAAATATATATATTTTAAATATACTTA
AATATATATTTCTAATATCTTTAAATATATATATATTTTAAAGACCAATTTATGGGAGAATTGCACACAGATG
TGAAATGAATGTAATCTAATAGAAGC

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FIGURE 2362

MQMSPALTCLVLGLALVFGECSAVHHPPSYVAHLASDFGVRVFQQVAQASKDRNVVFSFYGVASVLAMLQLTTGG
ETQQQIQAAAMGFKIDDKGMALRHLYKELMGPWNKDEISTTDAIFVQRDLKLVQGFMPHFFRLFRSTVKQVDFS
EVERARFIINDWVKTHTKGMISNLLGKGAVDQLTRLVLVNALYFNGQWKTPFPDSSTHRRLFHKSDGSTVSVPM
AQTNKFNYTEFTTPDGHYDILELPYHGDTLMSFIAAPYEKEVPLSALTNILSAQLISHWKGNMTRLPRLLVLPK
FSLETEVDLRKPLENLGMTDMFRQFQADFTSLSDQEPLHVAQALQVKIEVNESGTVASSSTAVIVSARMAPEEI
IMDRPFLFVVRHNPTGTVLFMGQVMEP

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FIGURE 2363

GTGGGACGCGCCGAGCCGGAGGCTGCAGGATGATGCGGTTTCATGCTATTATTTCAGCCGGCAGGGAAAACTGCGGC
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCACACTGGAGCTGATCCACCGATACGTGGAGCTCT
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG
AGTTTTTGATGGGGGGGGATGTCCAGGACACCTCCACTTTCCCCTTTTCCCACTGAAGGTTTTAGAAAGCTAGGAG
GCAGGAAAATGTGACCCAGATGGGGGTGCTATTTGGCTTTTATTCCTGCCTTTGCAGAACTGATGTCACCCAG
ATGTCCTTCCCTCCCTAATAACTGTAAATATATAAATATGTCAGGTTAAAGGGAAAAGGTGTTTCAGGGCACTTCT
TGTCCTCTCTGTCCCATAACCTACCTCCACCTCCCCCTAGCCAGCCAGGCAGCTTCTCTGCCTGGGAGGGGAGC
CTGGACCCCTCTTTCTCCTTGGCTGCAGTGGGGCCTTTATCCAGTGCCAGGGAGGAACAACATAGTTAATTTT
TTTCTAACCTTGCCACTTTGAGGGAAGGAAGGGTTGGGGGAAGGGCAAGCTTTATGGGACCCTGGTCCTGGCCCT
GGCCTTTCACCTCCAGTTCTGGGTGAGGCAGGAGCTGGGAGGGGTGGGGAGGGGGAGGGGGAAGTGTCTGCCTTTA
TGTCCTTTCTTCTGAAATAAAAGGAAAAGCATTCTGGAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2364

MMRFMLLFSRQGKRLRLQKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD
NELITLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFMGGDVQDTSTFPFSH

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FIGURE 2365

GTGGGACGCGCCGAGCCGGAGGCTGCAGGATGATGCGGTTCATGCTATTATTCAGCCGGCAGGGAAAACTGCGGC
TGCAAAAATGGTACCTGGCCACTTCGGACAAGGAACGGAAGAAGATGGTGCGCGAGCTCATGCAGGTTGTCCTGG
CTCGAAAGCCCAAGATGTGCAGCTTCCTGGAGTGGAGGGACCTCAAAGTTGTCTATAAGAGATATGCCAGCCTCT
ACTTCTGCTGCGCCATCGAGGGCCAAGACAATGAGCTCATCACACTGGAGCTGATCCACCGATACGTGGAGCTCT
TAGACAAATACTTTGGCAGTGTGTGCGAGCTGGACATCATCTTCAACTTTGAGAAGGCCTACTTCATCCTGGATG
AGTTTTTGATGGGGGGGGATGTCCAGGACACCTCCAAGAAGAGTGTGCTGAAAGCCATCGAGCAGGCTGACCTAC
TGCAAGAGGAGGATGAGTCGCCACGGAGTGTGCTGGAGGAGATGGGTTTGGCATAGCCCCCTGCTGGGCCGGGGTG
TGGCGATGGGGTCCTGGCAGCGTGGCGGGAACGGCTGCTTCTCCTCTGCCCAGGGCCCTGTTCTTGGTGGGACTC
GGCTGCCCCCTCCTC

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FIGURE 2366

MMRFMLLFSRQGLRLQKWYLATSDKERKKMVRELMQVVLARKPKMCSFLEWRDLKVVKRYASLYFCCAIEGQD
NELITLELIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFILMGGDVQDTSKKSVLKAIEQADLLQEEDESPRS
VLEEMGLA

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FIGURE 2367

CCAGCGTGCTGAAGCCGGAGCGAGCTAGCCGCCCGGAGCCGCGCCGACCCAGCTGAGCCCAGCCCACGGGACGCC
AGACCTCGACCGTCGCTCCTACCCCGGCCACCGCTCGGAGCCGAGGCGGACGCGTCCCAGATCTTCCCCTGTCCCC
ACCCTGCCCCGACCCTCCTCTCCACCTCTCGCGTCGTGACACCAGCGTCTCCGGCAGCCTCTTGGTCTATGAAGC
CCTCAGATTGTTCGGCTTCCGCCCTCTTCTGCCTTCTGCTGATCAACGGGTTAGGGGCAGCACCCCTGGTCGCCC
TGAGGCGCAGCCTCCTCCTCTCAGCTCTGAGCATAAAGAGCCGGTAGCCGGGGACGCAGTGCCCCGGGCCAAAGGA
TGGCAGCGCCCCAGAGGTCCGAGGCGCTCGGAATTCCGAGCCGCAGGACGAGGGAGAGCTTTTCCAGGGCGTGGA
TCCCCGGGCGCTGGCCGCGGTGCTGCTGCAGGCACTCGACCGTCCCGCCTCACCCCGGCACCAAGCGGCTCCCA
GCAGGGGCCGGAGGAAGAAGCAGCTGAAGCTCTGCTGACCGAGACCGTGCGCAGCCAGACCCACAGCCTCCCGGC
GCCGGAGAGCCCGGAGCCCGCGGGCTCCGCCTCGCCCTCAGACTCCGGAGAATGGGCCCCGAGGCGAGCGATCCCTC
CGAGGAGCTCGAGGCGCTAGCGTCCCTGCTCCAGGAAGTGCAGATTTTCACTCCAAGTAGCGCCAAGCGCCAGCA
GGAGACGGCGGCAGCAGAGACGGAAACCCGCACGCACACGCTGACCCGAGTGAATCTGGAGAGCCCGGGCCAGA
GCGCGTATGGCGCGCTTCTTGGGGAGAGTTCCAGGCGCGTGTCCCGAGCGCGCGCCCCCTGCCGCCCGGGCCCC
CTCTCAATTCCAGGCGCGTATGCCCCGACAGCGGGCCCCCTTCCCGAAACCCACAAGTTGGGGGAAGGAGTGTCTC
CCCCAAAACACACCTAGGCGAGGCATTGGCACCCCTGTCCAAGGCGTACCAAGGCGTGGCCGCCCGCTTCCCCAA
GGCGCGCCGGCCGGAGAGCGCACTCCTGGGCGGCTCCGAGGCGGGCGAGCGCCTTCTCCAGCAAGGGCTGGCGCA
GGTGGAGGCCGGGCGGCGGCAGGCGGAGGCCACGCGGCGAGCCGCGGCGCAGGAAGAGCGGCTGGCCGACCTCGC
CTCGGACCTGCTGCTCCAGTATTTGCTGCAGGGCGGGGCCCGGCAGCGCGGCTCGGGGGTGGGGGCTGCAGGA
GGCGGCGGAGGAGCGAGAGAGTGCAAGGGAGGAGGAGGAGGCGGAGCAGGAGAGACGCGGCGGGGAGGAGAGGGT
GGGGGAAGAGGATGAGGAGGCGGCCGAGGCGGAGGCGAGGCGGAGGAGGCGGAGAGGGCGCGGCAGAACGCGCT
CCTGTTTCGCGGAGGAGGAGGACGGGGAAGCCGGCGCCGAGGACAAGCGCTCCAGGAGGAGACGCCGGGCCACCG
GCGGAAGGAGGCCGAGGGGACAGAGGAGGGCGGGGAGGAGGAGGACGACGAGGAGATGGATCCGCAGACGATCGA
CAGCCTCATTGAGCTGTCCACCAAACCTCCACCTGCCAGCGGACGACGTGGTCAGCATCATCGAGGAGGTGGAGGA
GAAGCGGAAGCGGAAGAAGAAGACGCCCTCCCGAGCCCGTGCCGCCCCCGCTGCCGCCCCCGCCCCACCCACGT
CCGCTCCCCGCAGCCCCCGCCCCCGCCCCCGCTCCCGCACGAGACGAGCTGCCGGACTGGAACGAGGTGCTCCC
GCCCTGGGATCGGGAGGAGGACGAGGTGTACCCGCCAGGGCCGTACCACCCTTTCCCCAACTACATCCGGCCGCG
GACACTGCAGCCGCCCTCGGCCTTGCGCCGCCGCACTACCACCACGCCTTGCCGCCTTCGCGCCACTATCCCGG
CCGGGAGGCCAGGCGCGGCGCGCGCAGGAGGAGGCGGAGGCGGAGGAGCGCCGGCTGCAGGAGCAGGAGGAGCT
GGAGAATTACATCGAGCACGTGCTGCTCCGGCGCCCGTGAAGTCCCTTCCCGGTCCCGCCCCCGCGCGCCCCGC
CGCGCGCGCGCGCGCGGCCCGCCCCCTCCGTGTTGCCCGCTCCCCCTCGGTGTTTGCATGCGCCCCGGCCCTGCC
TTGGCCCTGCCCTGTCCCCGGGCTGCGTGGGACCTGCCAGACCCCTCCCGGTCTAGAGCCGAAGTCCCA
GAGCTCACCCGCGGGTGACCGGGGGCCAGCCAGGAGGGCGGGTGGTTTGTGCGAGTTCCCTTGCCACGCGGGC
CCCGGCCCATCAAGTCCCTCTGGGGACGTCCCCGTCGGAACCGGAAAGCAGTTCCAGTTAATTGTGTGAAG
TGTGTCTGTCTCCAGCCCTTCGGGCCTCCACGAGCCCTCCAGCCTCTCCAAGTCGCTGTGAATTGACCCCTC
TTTCCTTTCTCTGTTGTAAATACCCCTCACGGAGGAAATAGTTTGTGCTAAGAAATAAAGTGACTATTTT

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FIGURE 2368

MKALRLSASALFCLLLINGLGAAPPGRPEAQPPPLSSEHKEPVAGDAVPGPKDGSAPVVRGARNSEPQDEGELFQ
GVDPRALAAVLLQALDRPASPPAPSGSQQGPEEEAAEALLTETVRSQTHSLPAPESPEPAAPPRPQTPENGPEAS
DPSEEEALASLLQELRDFSPSSAKRQQETAAAETETRTHLTTRVNLESPGPERVWRASWGEFQARVPERAPLPP
PAPSQFQARMPDSGPLPETHKFGEVSSPKTHLGEALAPLSKAYQGVAAPFPKARRPESALLGGSEAGERLLQQG
LAQVEAGRROAEATRQAAAQEERLADLASDLLLQYLLQGGARQRLGGRGLQEAAEERESAREEEEEAEQERRGGE
ERVGEEDDEAAEAEAEAEAEERARQNALLFAEEEDGEAGAEDKRSQEETPGHRRKEAEGTEEGGEEEDDEEMDPQ
TIDSLIELSTKLHLPADDVVSIIIEVEEKRRKKNAPPEPVPPPRAAPATHVRSPQPPPPAPAPARDELDPWNE
VLPPWDREDEDEVYPPGPYHFPNYIRPRTLQPPSALRRRRHYHHALPPSRHYPGREAAQARRAQEEAEAEERRLQEQ
EELENYIEHVLLRRP

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FIGURE 2369

GGCACGAGGGCTTCCACATGTGTCAAGCGGCTGGCTCAGCCCAGAGTCCCTGTCTCCCGCCCGCCGGCCCCGAGCC
GCCGCCCCCTCCCCCGCTCCCGTGCGCCCGGGACAATCCTCGCCTTGTCTGTGGCGCCGGCATCTGGAGCTTTCT
GTAGCCTCCGGATACGCCTTTTTTTCAGGGCGTAGCCCCAGCCAAGCTGCTCCCGCGGGCGGCCGACAGCAGCC
CGAGCGCCCCCTTTCCGGAGCTCCCCCTCCGGAGCTGGGATCCAGGCGCGTAGCGGAGATCCCAGGATCCTGGGTG
CTGTCTGGGCCCCGCTCCCCACCATGACCTCCTCGGGGCGCTGGACCCCGGTTCTGTCTGCTGCTGCCGCTGCTGCT
GCCCCCTGCGGCCTCAGCCTCCGACCGGCCCCGGGGCCGAGACCCGGTCAACCCAGAGAAGCTGCTGGTGATCAC
TGTGGCCACAGCTGAAACCGAGGGGTACCTGCGTTTCTGCGCTCTGCGGAGTTCTTCAACTACACTGTGCGGAC
CCTGGGCCTGGGAGAGGAGTGGCGAGGGGGTGATGTGGCTCGAACAGTTGGTGGAGGACAGAAGGTCCGGTGGTT
AAAGAAGGAAATGGAGAAATACGCTGACCGGGGAGGATATGATCATCATGTTTGTGGATAGCTACGACGTGATTCT
GGCCGGCAGCCCCACAGAGCTGCTGAAGAAGTTCGTCCAGAGTGGCAGCCGCCTGCTCTTCTCTGCAGAGAGCTT
CTGCTGGCCCGAGTGGGGGCTGGCGGAGCAGTACCTGAGGTGGGCACGGGGAAGCGCTTCTCAATTCTGGTGG
ATTCATCGGTTTTTGCCACCACCATCCACCAAATCGTGCGCCAGTGGAAGTACAAGGATGATGACGACGACCAGCT
GTTCTACACACGGCTCTACCTGGACCCAGGACTGAGGGAGAACTCAGCCTTAATCTGGATCATAAGTCTCGGAT
CTTTCAGAACCTCAACGGGGCTTTAGATGAAGTGTTTTAAAGTTTGATCGGAACCGTGTGCGTATCCGGAACGT
GGCCTACGACACGCTCCCCATTGTGGTCCATGGAAACGTTCCACTAAGCTGCAGCTCAACTACCTGGGAAACTA
CGTCCCCAATGGCTGGACTCCTGAGGGAGGCTGTGGCTTCTGCAACCAGGACCGGAGGACACTCCCGGGGGGGCA
GCCTCCCCCCCCGGGTGTTTTCTGGCCGTGTTTGTGGAACAGCCTACTCCGTTTCTGCCCCGCTTCTGACGCGCT
GCTACTCCTGGACTATCCCCCGACAGGGTCACCTTTTCTGTCACAACAACGAGGTCTTCCATGAACCCACAT
CGCTGACTCCTGGCCGACGCTCCAGGACCACTTCTCAGCTGTGAAGCTCGTGGGGCCGAGGAGGCTCTGAGCCC
AGGCGAGGCCAGGGACATGGCCATGGACCTGTGTGCGCAGGACCCCGAGTGTGAGTTCTACTTCAGCCTGGACGC
CGACGCTGTCTCACCACCTGCAGACCTGCGTATCCTCATTGAGGAGAACAGGAAGGTGATCGCCCCCATGCT
GTCCCGCCACGGCAAGCTGTGGTCCAATCTTGGGGCGCCCTGAGCCCCGATGAGTACTACGCCCCGCTCCGAGGA
CTACGTGGAGCTGGTGCAGCGGAAGCGAGTGGGTGTGTGGAATGTACCATACTCTCCAGGCCTATGTGATCCG
GGGTGATACCCTGCGGATGGAGCTGCCCCAGAGGGATGTGTTCTCGGGCAGTGACACAGACCCGGACATGGCCTT
CTGTAAGAGCTTTTCGAGACAAGGGCATCTTCTCCATCTGAGCAATCAGCATGAATTTGGCCGGCTCCTGGCCAC
TTCCAGATACGACACGGAGCACCTGCACCCCGACCTCTGGCAGATCTTCGACAACCCCGTCTGACTGGAAGGAGCA
GTACATCCACGAGAACTACAGCCGGGCCCTGGAAGGGGAAGGAATCGTGGAGCAGCCATGCCCGGACGTGTACTG
GTTCCCACTGCTGTGAGAACAAATGTGTGATGAGCTGGTGGCAGAGATGGAGCACTACGGCCAGTGGTCAGGCGG
CCGGCATGAGGATTCAAGGCTGGCTGGAGGCTACGAGAATGTGCCACCCTGGACATCCACATGAAGCAGGTGGG
GTACGAGGACCAGTGGCTGCAGCTGCTGCGGACGTATGTGGGCCCCATGACCGAGAGCCTGTTTCCCGGTTACCA
CACCAAGGCGCGGGCGGTGATGAACCTTTGTGGTTTCGCTACCGGCCAGACGAGCAGCCGTCTCTGCGGCCACACCA
CGACTCATCCACCTTACCCTCAACGTTGCCCTCAACCACAAGGGCCTGGACTATGAGGGAGGTGGCTGCCGCTT
CCTGCGCTACGACTGTGTGATCTCCTCCCCGAGGAAGGGCTGGGCACTCCTGCACCCCGGCCGCTCACCCACTA
CCACGAGGGGGCTGCCAACGACCTGGGGCACACGCTACATCATGGTGTCTTTGTCGACCCCTGACACTCAACCAC
TCTGCCAAACCTGCCCTGCCATTGTGCCTTTTTAGGGGGCCTGGCCCCCGTCTGGGAGTTGGGGGATGGGTCTC
TCTGTCTCCCCACTTCTGAGTTTATGTTCCGCGTGCCTGAACCTGAATATGTCACCTTGCTCCCAAGACACGGCC
CTCTCAGGAAGCTCCCGAGTCCCGCCTCTCTCCTCCGCCACAGGGGTTCTGTTGGGCACAGGGCTTCTGGGGAC
TCCCCGCGTGATAAATTATTAATGTTCCGCAGTCTCACTCTGAATAAAGGACAGTTTGTAAAAA

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FIGURE 2370

MTSSGPGPRFLLLLPLLLPPAASASDRPRGRDPVNPEKLLVITVATAETEGYLRFLRSAEFFNYTVRTLGLGEEW
RGGDVARTVGGGQKVRWLKKEMEKYADREDMIIMFVDSYDVILAGSPTELLKKFVQSGSRLLFSAESFCWPEWGL
AEQYPEVGTGKRFLNSGGFIGFATTIHQIVRQWKYKDDDDQLFYTRLYLDPGLREKLSLNLDHKSRIQNLNGA
LDEVVLKFDRNRVRIRNVAYDTLP IVVHGNGPTKLQLNYLGNYVPNGWTPEGGCGFCNQDRRTLPGGQPPPRVFL
AVFVEQPTPFLPRFLQRLLLLDYPPDRVTFLHNNEVFHEPHIADSWPQLQDHFSAVKLVGPPEEALSPGEARDMA
MDLCRQDPECEFYFSLDADAVLTNLQTLRILIEENRKVIAPMLSRHGKLWSNFWGALSPDEYYARSEDYVELVQR
KRVGVWNVPIYSQAYVIRGDTLRMELPQRDVFSGSDTDPDMAFCKSFRDKGIFLHLSNQHEFGRLATSRYDTEH
LHPDLWQIFDNPVDWKEQYIHENYSRALEGE GIVEQPCPDVYWFLLSEQMCDELVAEMEHYGQWSSGRHDSRL
AGGYENVPTVDIHMKQVGYEDQWLQLLRTYVGPMTESLFPGYHTKARAVMNFVVRYPDEQPSLRPHHDSSTFTL
NVALNHKGLDYEGGGCRFLRYDCVISSPRKGWALLHPGRLTHYHEGLPTTWGTRYIMVSFVDP

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FIGURE 2371

GCAGTTTATTCCGACAGTTGTGTTGTGCCAATGGTGGAGAAGAAAAC TTCGGTTCGCTCCCAGGACCCCGGGCAG
CGGCGGGTGCTGGACCGGGCTGCCCCGGCAGCGTCGCATCAACCGGCAGCTGGAGGCCCTGGAGAATGACAACTTC
CAGGATGACCCCCACGCGGGACTCCCTCAGCTCGGCAAGAGACTGCCTCAGTTTGATGACGATGCGGACACTGGA
AAGAAAAAGAAGAAAACCCGAGGTGATCATTTTAAACTTCGCTTCCGAAAAAACTTTCAGGCCCTGTTGGAGGAG
CAGAACTTGAGTGTGGCCGAGGGCCCTAACTACCTGACGGCCTGTGCGGGACCCCCATCGCGGCCCCAGCGCCCC
TTCTGTGCTGTCTGTGGCTTCCCATCCCCCTACACCTGTGTCAGCTGCGGTGCCCGGTACTGCACTGTGCGCTGT
CTGGGGACCCACCAGGAGACCAGGTGTCTGAAGTGGACTGTGTGAGGCCTGGGCATTCCCAGAGAGGAAGGGCCGC
TGTGCACTGCCCCGGCCTTCAGAAAGACAGAATTCATCACCCAATGCAGGGGGAGCTCTTCCTGGACCAAGGGAG
GAGCCGCTCATTACCCAACAAAACCTGTGTCTTATCTGCCAGGAAAGACCAGCCTCACTCCTGGGAACGTGCTGG
CAGGTAGGCTGGGCCCCCAGTGCTGTTAGAATAAAAAGCCTCGTGCCGG

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FIGURE 2372

MVEKKTSVRSQDPGQRRVLDRAARQRRINRQLEALENDNFQDDPHAGLPQLGKRLPQFDDADTGKKKKKTRGDH
FKLRFRKNFQALLEEQNLSVAEGPNYLTACAGPPSRPQRPFCAVCGFSPYTCVSCGARYCTVRCLGTHQETRCL
KWTV

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FIGURE 2373

ATATACTTGC GCGCCGACGCCGCCGCTCGCTTGTGAAACTGGAAGGCTGCC**ATGG**CTAGCCCAGCCGCCTCCTCG
GTGCGACCACCGAGGCCCAAGAAAGAGCCGCAGACGCTCGTCATCCCCAAGAATGCGGCGGAGGAGCAGAAGCTC
AAGCTGGAGCGGCTCATGAAGAACCCGGACAAAGCAGTTCCAATTCCAGAGAAAATGAGTGAATGGGCACCTCGA
CCTCCCCCAGAATTTGTCCGAGATGTATGGGTTCAGTGCTGGGGCCGGCAGTGGAGAGTTCCACGTGTACAGA
CATCTGCGCCGGAGAGAATATCAGCGACAGGACTACATGGATGCCATGGCTGAGAAGCAAAAATTGGATGCAGAG
TTTCAGAAAAGACTGGAAGAATAAAATTGCTGCAGAGGAGCAGACCCGCAAAGCGCCGGAAGAAGCGCCAGAAG
TTAAAAGAGAAGAAATTACTGGCAAAGAAGATGAAACTTGAACAGAAGAAACAAGAAGGACCCGGTCAGCCCAAG
GAGCAGGGGTCCAGCAGCTCTGCGGAGGCATCTGGAACAGAGGAGGAGGAAGTGCCCAAGTTTACCATGGGG
CG**ATGACA**ATGTTTGGCCACAGCCTCTGCCTGGAACCTGGCTCGTGCTGTGACCAGAAGGGAAAGGCGGCTGTTTG
GCTCTTTCTCCCCCGCAAGGACCCGCTGACCCGCTGGATGGAGAGCAAAGGAGACCCCTCCCGAGCCGCTCACAG
TCCTGTATTTGGCAGGTTTGGGAGCCTGAGGGGCCATCTCCCTGACACTCAGAGGCACTGCCTTGACAGACACCAT
CCGTGCTCCTGGTAAAGGGGGACAGAGAGCCTCACCTTGCCACATATTTGAACAGTGATGAGTTTGGGGCTGGTT
TCTGGGAAGGGAACGTTTATTTAGTAAAGAGCAGAACACCCTTGCGTTTTGTTGGGACATGTGGACCGTGAGTCG
CAAACACTCTGGAGAAGGCTGAGATGCCACCATTCCCACGGGGACTGAAGACACATTACGTGGACCTGGTCCCAG
GCTCAGTGAGGAGATGGCCTCAGCTGTGGGGCTGGTCCATGTTGCCCACTCACTCCAGTGGGAAGTGGGGACCAC
GCCATAGAGGGTCTGCTCCCACTGCAGCTCCCGGTGCTCTCGTGTTCTGGGAAGGCCTGGGTGTGTGCACAAGGA
GGCCCGGGCCAGGGACTTCACCAGGGGCTGGGTCAACAAGGGCACAGGGTGTGTGGAAGCGCTGTGGGGGAAGAG
CCGGTCACCGGAGAGTGAGCAGGCGGAGACTCCAAGCTGGGCTGAGCCAGAGCAGAAGGCGAGGGATTCCCAGCC
GGACGGGGGTTCTCTACCAACAGCTGTGATTTTCATCCCGAAGTGGAAGGGGGTCTAAACAGAACAGGCTGAGAG
AGGCGGGACTGGGTCAAGTGGGTGGAGCTCCTCCTTGCACTGACTGCAACTGTCGGGGCTTTCCGCCGGCTCACAG
CAGTTGGGGCCAGCGGGGAGAAGAGAGGCGGAACCTGCTGTGTCTCACGTGGCGCAGCCTCAAACCTGGCATCCAG
GCACTGGGCCCCTGCAGAGAAGGCACCTGCAGAGAGCAGGGCAGCCCGGCGCAGGGGCATGCGCCTAGAATCCCA
GCTACTCGGAAGGCCAAGGCAGGAGGACCGCTTGAGTCCAGGGATTCAAGGCCAACCTGGGCAATAGAGCGAGAC
CCTGTCTCTTAAAAAACGATGATGATGAACACAGAGGACGGGGCACTGTGCTGGGAGCCAGGGGGCCTGGGAGGA
GCCGAGACCAGCCTTTTACCTCGGGGTTTTGAGGCCAACAGGGACGACAGAGACAGTTTCTAGTTAGAGCCTTGG
CTCCATTTTTTGATGATTTAGCCCCGAGTTCTTGAGTCTATTTTATGCCCTTACGTACTTTGATAGAACTAAGG
AAATAGTGGTTTTTGAGTGAAGGGAAGGAAACCCAGAAACATTTTACGTTGCTTTTACTTCTGTAGTGTAGATTG
CCCCGGCCCCCTCTCTGAGCCCTGTAGCATCTGTGATAGCTTCTGTCCCTTCATCGGTTTCATGTCACAGGGATTTT
CTTTCCCAGGAAGCGGACACGGAGAGTCAGCCCTAATAAATGAGCACATGCCCTGGCTGTACATTTTGAAACCTG

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FIGURE 2374

MASPAASSVRPPRPKKEPQTLVIPKNAAEEQKLKLERLMKNPDKAVPIPEKMSEWAPRPPPEFVRDVMGSSAGAG
SGEFHVYRHLRRREYQRQDYMDAMAEKQKLDAEFQKRLEKNKIAAEEQTAKRRKKRQKLKEKKLLAKKMKLEQKK
QEGPGQPKEQGSSSSAEASGTEEEEEEVPSFTMGR

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FIGURE 2375

CGCTCGGCGCCCCGGCCGGGCCACTGGGCCACAGGCCACGCGGCCACGCAGTCCGAGCGGGAGCCGAGCCGGGCG
GGGCGAGGGCAGCTCCGGAACGTCCCAGGGATGGAAGTGCTTGGATGCGGTGCTGCTGGCTGCGGATGTGCGCAA
GGAGATGGGATGGAGAGCCTGAGTTGGCATTCGTATAAATGACCTGCCTGGCTCCCACCATGAGTGCTGAGCTTA
ACGTGCCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCCGGCCATAAGGGCATGGATTACCGGGACTGGGTCC
GCCGAGCTACCTGGAACCTGGTCACCTCTAACCACTCGGTACAGGCCCTGTCTGGCGGAAGCTCTACCTGA
GCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGG
TGCAGCTGGAGACGCAGTACCAGTACCCGCGGCCGCTGCTGATTGCCTTCAGCGCCTGCACCACGGTGCTGGTGG
CCGTGCACCTGTTTCGCCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACC
TGAACCTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAGCTGGCCTGGGGCTTCTCCACCGTGC
TTGGCATCCTACTCTTTCCTGGCCGAGGTGGTGTCTGTCTGGATCAAGTTCTTCCCGTGGATGCCCGGCGCC
AGCCTGGCCCCCACCTGGCCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATATGGTGC
CCGTGGGCCTCATCTTCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACA
ACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTGTGAG
GGGCCGAGGGCCGGGGCTGGGAGCGGCCCTGTGCCCGGAGTCCGCAGAGGCGGGGATTTGTCAGATGCAGACAT
TTTGCAAGGCTGCCGGGTAGTTCAAGACCAAAGTTTCTCTTGTCTTAATACCATAAGGACTGGATGACTTCTC
CTGAGATAGAACCCTTTGGTTCAATGAGGGACTGTGTTGCTAAGAGCGTTGGGGCAAAGCCAGGCTGGTTCCTT
GGCCTCGGGGTTTCTTGGTTCGGGGACACGGTGAAGAGGCTCCAGCGGGACCTGCCCATCAGTCTTGGGCCAGGA
GGGGCTCCAAGCAGCACCCAGCGGTCCGGGGGAGTCTCAGACCCGGCATGCGTGGCTGGCAGACCTGGGAGAGCC
AGGGCAGGGTTTTGCGTTCAGAGAAGGATTGCCCCAGAGACCCGTGGTGGACTTCATGGGTGCTGAGTGGCCCGT
GTGACAGTGATGACACGAAGGCTTCGGCGTTTGAGTGGGTGCAGGTGCACGCCAGGGCTTGGTGTCTCCCTGCCT
GGCCCTGGAGGGAGCTGGGTGGCCTGGCTTCAGGGGAAGACAGGAGCCAGGACACACGTCAGCCAGCAGGTGTG
GGGGGTGCTGCAGCCCTCGGCAGTGGGGTCAGGCCCTGGGGGATGTTTCCAATGGTGGGCAGCCTGGCCAGGCCG
GAGAAGACATGTTACGGGCATCTATCAGATGCCCCCTTGAGGAGGCTGAGTTATTTGAGGGCTGCTGCAAAGTA
CGCTAGGCTCAAATTCTCTTTTCCAGCCAGAGCCCTGGCCACACGGACTCAGAGGGGGCCACCGGGGTGGGGAAA
GGACCCCTCCCCACCCCCCGCAGCCACTGGCCTCCAGCTCTCGGCCACAGAATGGCCTCTAAGGCTGACTCAGC
CACTCCCTTGGGCTGTGGCAGCAGGAGGCGGGGGCTCTGGCTCAGGCCCGGAGCCTGTGCAGCTTGCCCATGGC
CCTAGGCAGCGAGGGACAGCCTGGGGGACTTCTGCCTAGGCAAGGTCATTGGCCGGGCCTGGCCTGTGGATAG
TGGGGCCAGGGGCCGGCCAGGCCAAATGAGTGCCCTCCTTGTATGACACCAAGTGACTACAAGGGAGGCAAGA
CCCCTCCAGGCCTCTCAGCCGACACTGGGTCCCACCACACACAGTGACTGTGCCGTGCAGTGCAAGTTCTGGCCT
TTTCCTTGAAGGCATCTGGTAGACCCGAAGCCACGCTCTCGGGCCGCACATGCACGCCGACGACCAGCTGCCCT
GAGCTGCTTGTACAACCAAACACCTTTCCCTCTTCTCCAGCTGTAACCTGGAGAGTCAGCCATGCCTTGTCTTT
TGTTCTCATAAATAGTCACTGGGGCCGGGCGCAGTGACTCACGCCTGTAATCCAGCACTTTGGGAGGCCTAGGT
GGGCGGATCACTTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAT
ACAGAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGCCCCAGCTACTTGGGAGGCTGAGGCGGGAGAATGGCA
ATGGCGTGAACCCGGGAGGCAGAGCTTGACAGTGAGCTGAGATGGCGCCACTGCACTCCAGCCTGGGCGACAGAGC
CAGACTCCATCTC

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FIGURE 2376

CGGCGGTGGCGGACACTTGGGGTCTGGACGCAACGGCGGCGGGAGCATGAACGCCCCTCCAGCCTTCGAGTCGTT
CTTGCTCTTCGAGGGCGAGAAGATCACCATTAACAAGGACACCAAGGTACCCAATGCCTGTTTATTCACCATCAA
CAAAGAAGACCACACACTGGGAAACATCATTAAATCACGTGCCTGCTTCCCCTTCGCCTTCTGCCGTGATTGTCA
GTTTCCTGAGGCCTCCCCAGCCACGCTTCCTGTACAGCCTGCAGAACTCTGCCCCAGAGCACATCAGCTATGTGC
CCCAGCTCTCAAACGACACCTTGGCGGGGAGGCTCACCCGTGCCACCTTCACGCTGGAGCAGCCTCTAGGCCAGT
TCAGCAGCCACAACATCTCTTGA

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FIGURE 2377

MNAPPAFESFLLFEGEKITINKDTKVPNACLF TINKEDHTLGNI IKS RACFPFAFCRDCQFPEAS PATLPVQP AE
LC PRAHQLCAPALKRHLGGEAHPVHLHAGAASRPVQQPQHL

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FIGURE 2378

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAAATGCCGGAT
TACCTCGGTGCCGATCAGCGGAAGACCAAAGAGGATGAGAAGGACGACAAGCCCATCCGAGCTCTGGATGAGGGG
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTCAG
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT
GCTGATTCCGGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTAATTTCATCCAGAGAGGTTTGTGAAC
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA
GTTGCTAATCGGACTGATGCGTGCTTCATTGAGTTATTGGATCTGAGCTTGTACAGAAATACGTCGGTGAGGGG
GCTCGAATGGTTTCGTGAACCTCTTTGAAATGGCCAGAACAAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT
GCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAGAACAATGTTGGAAC TGATC
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTCCGACCCAC
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTTGCCATCAGAGCACGGCGAAAAATT
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT
TACATGACATACAAC TGAACCCTGAAGGCTTTCAAGTGAAAACCTTAAATTGGAATCCTAACCTTATATAGACTT
GTTAATAACCAATTCATAAACAAATAAATGGCTTCAACTTTAGAGCACAATGG

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FIGURE 2379

MPDYLGADQRKTKEDKDDKPIRALDEGDIALLKTYGSTYSRQIKQVEDDIQQLKKINELTGIKESDTGLAPP
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSQVAPTDIEEGMRVGVDNRNKYQIH
IPLPPKIDPTVTMMQVEEKPDVTYSDVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTLC
ARAVANRTDACFIRVIGSELVQKYVGEGARMVRELFEMARTKKACLIFFDEIDAIGGARFDDGAGGDNEVQRTML
ELINQLDGFDPGRGNIKVLMATNRPDTLDPALMRPGRDLRKIEFSLPDLEGRTHIFKIHARSMSVERDIRFELLAR
LCPNSTGAEIRSVCTEAGMFAIRARRKIMATEKDFLEAVNKVIKSYAKFSATPRYMTYN

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FIGURE 2380

CTTTCCTCTGCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACCAGTCAGCTGGGCTGATGAAACGGA
TGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCCTCCAATTGACCG
TTCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACC
CTACACTGCTTTTCTAGGAAACCTACCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTTCGAGGATTAAA
TATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGCTGAAAGGTTTTGGTTATGCTGAATTTGA
GGACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAAGTAACAGGAGAATTCGAGTGGACGT
TGCTGATCAAGCACTGGATAAAGAGTATCGAGATCGTTATGATTAGACCGGTATCGGGATGGGTATCGGGATGG
CCCACGCCGGGATATGGATCGATATGGTGGCCGGGATCGCTATGATGACCGAGGCAGCAGAGACTATGATAGAGG
CTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGTGGGTATCGCAGGGATGATGACTACAGAGAAGG
CAGGGACTGCTATGAAGACCAATATGACAGACGGGATGATCGGTCGTGGAGCTCCAGAGATGATTACTCTCGGGA
TGATTATAGGCGTGATGATAGAGGTCCCCCCCCCCCCAAAGACCCAAACTGAATCTAAAGCCTCGGAGTACTCCT
AAGGAAGATGATTCCTCTGCTAGTAACTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTT
G

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FIGURE 2381

CCTAACAGACTTTTCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGC
TGATGAAACGGATGACCTGGAAGGAGATGTTTCTACAACCTTGGCACAGTAACGATGACGATGTGTACAGGGCGCC
TCCAATTGACCGTTCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAGAGACACCCAAGCTGGCAAAGTGAAGA
AACTCAGGAACGGGAACGGTCGAGGACAGGAAGTGAGTCATCACAGACTGGGACCTCCACCACATCTGGCAGAAA
TGCATGAAGGAGAGAGAGTGAGAAGTCTCTAGAAAAATGAAACACTCAATAAGGAGGAAGATTGCCACTCTCCAAC
TTCTAAACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAATGCTTGGGTGAA
GCGAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACACAGAGCAGCAATCCCCTACAAGTGGTGGGGGAAA
AGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGGAAGGAAAGATGAAAATAAAGTAGATGGGATGAATGTCCC
AAAAGGCCAAAACCTGGGAACTCTAGCCGTGGTCCAGGAGACTGAGGGAACAGAGACCACTGGAAGGAGTCAGATAG
GAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAATCCAGCTTCCAA
GTTCAAGTTCTGCAAGCAAGTATGCTGCTCTCTCTGTTGATGGTGAAGATGAAAATGAGGGAGAAGATTATGCCAA
ATAGACCTCTACATCCTGTGCTTTTCTCCTAGTTTCTCTCCACCCTGGAACATTCGAGAGCAAATCAAAACCTCT
ATCCAGACAAGACAAAATAAACTCACCATCTCCTGAAGACCTTTCTTACCTTTTTTTTTTAAACAAAAAATGAAA
TTATTTTGCATGCTGCTGCAGCCTTTAAAGTATTGAAGTAACTGGAGAATTGCCAATACAGCCAGAGAGAAAGGG
ACTACAGCTTTTATAGAGAAGTTGTGGTGCCTTATGTCACCATGCAGTTGCCAGTGTGATTAGTGCCTAGGGGTCT
CCATTTAGCAGAAATGGTAATGACAGTGATATAACGCCTGGAACCTGGTTGGGCAGTAGGGGAGGGAGGTAGAAG
GAAAAGTGTGAGATTCTACCTTTTAGTTTTTTTCTATTGTGGCATATATGAATTCTCAAACATTATCTGAATA
AATTTTCCATTCTTGGAAGGTAGATTTAGCCTCAAGTTGTTTTAGTCTCCAGGAGGCTGCCAGCCCCCTCCTCTT
ATTTAATTCTGAGTTTGGGGGACAGCCTAGAGGGAATTCCTTTTTTTTTTTTTTTTACCCCCAAGGGGGTTAG
TTGGGAGTGAGACTATAGGCCATAAAGAATGGGACTCATTGGACCAAAATAAATGGGAAAATCGTGGTTTGAAAG
GAAGCTTTTGGGAATTGATGAGTCATTTTGCACCAGGTAATAGGGGAAAATTTGTGTGACCTCCAGCAAACACATG
AATGGTTATTTCTGAGCCGGAAGCACTTGGGGGTCTGGTAATTCCCAATGTTTTCTGTGCTCTAGTTTTACC
CTTTCTAAACACTGTCCTTTTTGAAAGTTTGAATATATCCACATTCTATTGAAACCTTGAAACTAAAAATTTAGA
CTCTTATCGTCATCTTAAGTTCTTCATGCTACTCTTAACCTCCCAAAAAGCAGTATCTAAGTCACATACATGATG
TCTTGGGCATTTTCTCTCTCAGCCATGGAGAATCTGAAAGGAAGAATCGCTGCTTTTCTCAAGCAAATCGGTTT
CTTGATATCTTCTGGTTCTCACTCCTTGCCTGCTCCTGATGCTTTGACCCCTTTTATTGATCAGAGTGCTCTAGA
ATAATGGATGGTCTTGGATGGTGGATAAATAGGGACAGGGACAGTTAAATTGGGAGCCTTTCTTACAACCTTGAT
GGGTTTTTTTCCCCCAAGTTTCTTCTCCACTGAAATGCCACACTAATGTTTGTGGATTTCATGAGGTGGCCAG
ACCAATGTGTTTTGTTTTGTTTTTTTTTTTTTTTAAAGCTTCCCTTGAGAGAATAAACGGAAATGGAGAGAATAATTT
AACAAGGTCCTGGTTTCTCTTGCAACACAGTAGCTAAACTTGCCTGCCTTTATATGCATTTTTGTAGGGATCAGC
TTGGTAGACAGTATTAGCAGAGAAAACACCTTGATCTTGGTTTGCAAACCTTCTGCCATCAGTCCTAGATTAGGC
CCTGTTTCAGCCATGCAGGGGTGTTGGTTTATGCGTGCTGCAGCAGTGGGCATAATGAATATAATTTACCCAGTGG
ACAAAGGTGTGTACCAAGTGAATTTAAATAATTGGTGTGGATTGGCCAGTAGCTAAGAAGTGGGCTTTTAAAGAG
TATTGAAGATTGAAAGGTGTTTTTTTTCTTTTTTAAAAAAGAAAAAAACTATTGATTGTAGATAATGAAAAGC
TAGGGTTTGGCCCTCTTCATGTCTACTCTCCTTCCAAATAGTTATATCCAAACTGTTTTTCCCTGTCCCCTACCT
TGTCCCCCATTAATAATAGAAACAGGGATTGATTAATGTCCCGCTCCTGAATACATGTAAAATTTGTACAAAAA
TATCTTCTATGAAAATGATTTGTAATCTGTAGACTTATTACCTGGGAGATGTCTTGATGTAAAATCCCATCCTTT
GGGTTGTGGGTTTTTTGTTTTCTCCAAATAAATCTGATCTTTAAAGTTC

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FIGURE 2382

MAASAKKKKNGKGTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPFYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFGYAEFEDLDSL
LSALSLNEESLGNRRIRVDVADQAQDKDRDDRSFGRDRNRDSDKTDTDWRARPATDSFDDYPPRRGDDSGDSYD
SRIGSGRRAFGSGYRRDDDYRGGGDRYEDRYDRRDRSWSSRDDYSRDDYRRDDRGPPQRPKLNKPRSTPKEDD
SSASTSQSTRAASIFGGAKPVDTAAREREVEERLQKEQEKLRQLDEPKLERRPRERHPSWRSEETQERERSRTG
SESSQTGTSTTSSRNARRRESEKSLNETLNKEEDCHSPTSKPPKPDQPLKVMPPAPPKENAWVKRSSNPPARSQ
SSDTEQQSPTSGGGKVAPAPQSEEGPGRKDENKVDGMNAPKGQTGNSSRGP GDGGNRDHWKESDRKDGKKDQDSR
SAPEPKKPEENPASKFSSASKYAALSVDGEDENEGEDYAE

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FIGURE 2383

GTAGCGGGAGCGGAGAGCGGACCCCGGAGAGCGGACCCAGAGAACCCTGAGCAGCCCCGCCGCTGCCGGCCTAG
TTACCGTCATACCACGGGAGGAGCCGCAGCTGCCGCAGCCGGCCCCAGTCTCCATCACCGCAACCAATGAGCAGC
AAGGCCGAGACCCAGCAGCCACCCGCCGCCCGCCCTTTCCCCCACC GCCCCCCCTCCCGTCCCCCGCCGCCCC
CGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCTGCGCAGGGAGCGGTGGTCCGGGCGGCCCTCAC
ATCGGCGGCGCCTGCCAGCGTGGACAAGAAGGTCATCGCAGTGAAGGTTTTGGGAACAGTAAAAATGGTTCAATGT
AAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAA
TAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGAAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAGAGGG
TGCGGAGGCAGCAAATGTTACAGATCCTGGTGGTGTTCGAGTTCAAGGCGGTAAATATGCAGCAGATCGTAACCA
TTATAGACGCTATCCACGTCATAGGGGTCCTCCACGCAATTACCAGCAAAATTACCAGAACAGTGAGAGTGGGGA
AAAGACCGAGGGATCGGAGAATGCTCCCGAAGGCCAGGCCCAACAATGCCGGCCCTACCGCAGGCAAAGGTTCCC
ACCTTACTACATGCGGAGACCCTATGGGTGTCGACCACAGTATTCCAGCCCTCCTGTGCAGGGAGAAGTGATGGA
GGGTGCTGACAACCAGGGTGCAGGAGAACAAGGTAGACCAGTGAGGCAGAATATGTATCGGGGATATAGACCACG
ATTCCGCAGGGGCCCTCCTTGCCAAAGACAGCCTAGAGAGTACGGCAATGAAGAAGATAAAATCAAGGAGATGAG
ACCCAGGGTCAGCAGCCACCTCAACGTCGGTACCGCAGCAACTTCAATTACCAACGCAGATGCCCAGAAAACCCT
AAATCACAAAGATGGCAAAGAGACAAAATCAGCCAATCCACCAGCTGAGAATTCGTCTGCTCCCGAGGCTGAGCAG
GGCGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAA
ATTCCAGCAATTAAGAAATGAACAAAAGATTGGAGCTGAAGACCTTAAGTGCTTGCTTTTTGCCCGTTGACCAGAT
AAATAGAACTATCTGCATTATCTATGCAGCATGGGGTTTTATTATTTTTACCTAAATATGTCTCTTTTTGGTAA
TAACAAACGTGTTTTTTTTTAAAAAGCCTTGTTTTTCTCAATACGCCTTTAAAGG

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FIGURE 2384

MRRPYGCRPQYSSPPVQGEVMEGADNQGAGEQGRFVRQNMRYRGYRPRFRRGPPCQRQPREYGNEDKIKEMRPRV
SSHLNVGTAATSITNADAQKTLNHKMAKRQNPQHQLRIQLLPRLSRAGLSKCRLTISTIIIRFSHPTRRNMKFQQ

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FIGURE 2385A

GGGACCTGGAAGCGCCCCAGCCCCGAGCGATCGCAGATTCTGGCTTTCAAACAAAAGAGGCGCCCCGGGGGGTGG
GACCGGGACCTCACCCGGTCTCTCGCAGAGTTGCGGGCCGCCGCCCTTCAGCCCCGGCTCTCCGTATGCGCATGA
GCAGAGGCGCCTCCCTCTGTCTCTCCCAAGGCTAAACTTTCTAATTCCCTTCTTTGGGCTCGGGGGCTCCCGGAG
CAGGGCGAGAGCTCGCGTCGCCGGAAGGAAGACGGGAAGAAAGGGCAGGCGGCTCGGCGGGCGTCTTCTCCACT
CCTCTGCCGCGTCCCCGTGGCTGCAGGGAGCCGGCATGGGGCTTCTCCAGTTGCTAGCTTTCAGTTTCTTAGCCC
TGTGCAGAGCCCGAGTGC GCGCTCAGGAACCCGAGTTCAGCTACGGCTGCGCAGAAGGCAGCTGCTATCCCGCCA
CGGGCGACCTTCTCATCGGCCGAGCACAGAAAAGCTTTCGGTGACCTCGACGTGCGGGCTGCACAAGCCCGAACCC
TACTGTATCGTCAGCCACTTGCAGGAGGACAAAAATGCTTCATATGCAATTCCCAAGATCCTTATCATGAGACC
CTGAATCCTGACAGCCATCTCATTGAAAAATGTGGTCACTACATTTGCTCCAAACCGCCTTAAGATTGGTGGCAA
TCTGAAAATGGTGTGGAAAATGTAACATATCCAACCTGGATTTGGAAGCAGAATTCCATTTTACTCATCTCATAATG
ACTTTCAAGACATTCCGTCCAGCTGCTATGCTGATAGAAGCATCGTCCGACTTTGGGAAAACCTGGGGTGTGTAT
AGATACTTCGCCTATGACTGTGAGGCCCTCGTTTCCAGGCATTTCAACTGGCCCCATGAAAAAGTCGATGACATA
ATTTGTGATTCTCGATATTCTGACATTGAACCTCAACTGAAGGAGAGGTGATATTTCTGTCTTTAGATCCTGCT
TTCAAATAGAAGATCCTTATAGCCCAAGGATACAGAATTTATTAATAAATTACCAACTTGAGAATCAAGTTTGTG
AAACTGCATACTTTGGGAGATAACCTTCTGGATTCCAGGATGGAAATCAGAGAAAAGTATTATTATGCAGTTTAT
GATATGGTGGTTTCGAGGAAATTGCTTCTGCTATGGTCATGCCAGCGAATGTGCCCTGTGGATGGATTCAATGAA
GAAGTGAAGGAATGGTTTCACGGACACTGCATGTGCAGGCATAACACCAAGGGCTTAAACTGTGAACCTCTGCATG
GATTTCTACCATGATTTACCTTGGAGACCTGCTGAAGGCCGAAACAGCAACGCCTGTAAAAAATGTAACCTGCAAT
GAACATTCCATCTCTTGTCACTTTGACATGGCTGTTTACCTGGCCACGGGGAACGTGAGCGGAGGCGTGTGTGAT
GACTGTGAGCACAACACCATGGGGCGCAACTGTGAGCAGTGCAAGCCGTTTTACTACCAGCACCCAGAGAGGGAC
ATCCGAGATCCTAATTTCTGTGAACGTATGTACGTGTGACCCAGCTGGCTCTCAAATGAGGGAATTTGTGACAG
CTATACTGATTTTTCTACTGGTCTCATTGCTGGCCAGTGTGCGGTGTAAATTAAATGTGGAAGGAGAACATTGTGA
TGTTTGCAAAGAAGGCTTCTATGATTTAAGCAGTGAAGATCCATTTGGTTGTAAATCTTGTGCTTGCAATCCTCT
GGGAACAATTCCTGGAGGGAATCCTTGTGATTCCGAGACAGGTCACTGCTACTGCAAGCGTCTGGTGACAGGACA
GCATTGTGACCAGTGCTGCCAGAGCACTGGGGCTTAAGCAATGATTTGGATGGATGTGACCATGTGACTGTGA
CCTTGGGGGAGCCTTAACAACAGTTGCTTTGCGGAGTCAGGCCAGTGTCTATGCCGCGCTCACATGATTGGACG
TCAGTGCAACGAAGTGAACCTGGTTACTACTTTGCCACCCTGGATCACTACCTCTATGAAGCGGAGGAAGCCAA
CTTGGGGCCTGGGGTTAGCATAGTGAGCGGCAATATATCCAGGACCGGATTCCCTCCTGGACTGGAGCCGGCTT
CGTCCGAGTGCCTGAAGGGGCTTATTTGGAGTTTTTTCATTGACAACATACCATATTCCATGGAGTACGACATCCT
AATTCGCTACGAGCCACAGCTACCCGACCACTGGGAAAAAGCTGTCTATCACAGTGCAGCGACCTGGAAGGATTCC
AACCAGCAGCCGATGTGGTAATACCATCCCCGATGATGACAACCAAGGTGGTGTCTATTATCACCAGGCTCAAGATA
TGTCGTCTTCTCGGCCGGTGTGCTTTGAGAAGGGAACAACTACACGGTGAGGTTGGAGCTGCCTCAGTACAC
CTCCTCTGATAGCGACGTGGAGAGCCCCTACACGCTGATCGATTCTTGTCTCATGCCATACTGTAAATCACT
GGACATCTTCACCGTGGGAGGTTTCAAGAGATGGGGTGGTCAACAGTGCCTGGGAAACCTTTAGAGATACCG
ATGTCTAGAGAACAGCAGAAGCGTTGTGAAAACACCGATGACAGATGTTTGCAGAAACATCATCTTTAGCATTTT
TGCCCTGTTACACCAGACAGGCCTGGCTTGTGAATGCGACCCCTCAGGGTTTCGTTAAGTTCCGTGTGTGATCCCAA
CGGAGGCCAGTGCCAGTGCCGGCCCCAACGTGGTTGGAAGAACCTGCAACAGATGTGCACCTGGAACCTTTTGGCTT
TGGCCCCAGTGGATGCAAACCTTGTGAGTGCCATCTGCAAGGATCTGTCAATGCCTTCTGCAATCCCGTCACTGG
CCAGTGCCACTGTTTCCAGGGAGTGTATGCTCGGCAGTGTGATCGGTGCTTACCTGGGCACCTGGGGCTTTCCAAG
TTGCCAGCCCTGCCAGTGCAATGGCCACGCCGATGACTGCGACCCAGTGACTGGGGAGTGCTTGAACCTGCCAGGA
CTACACCATGGGTGATAACTGTGAAAGGTGCTTGGCTGGTTACTATGGCGACCCCATCATTGGGTGAGGAGATCA
CTGCCGCCCTTGCCCTTGCCAGATGGTCCGACAGTGGACGCCAGTTTGGCAGGAGCTGCTACCAAGATCCTGT
TACTTTACAGCTTGCTGTGTTTGTGATCCTGGATACATTGGTTCCAGATGTGACGACTGTGCCTCAGGATACTT
TGGCAATCCATCAGAAGTTGGGGGGTCTGTGTAGCCTTGCCAGTGTGACAACAACATTGACACGACAGACCCAGA
AGCCTGTGACAAGGAGACTGGGAGGTGTCTCAAGTGCCTGTACCACACGGAAGGGGAACACTGTGAGTTCTGCCG
GTTTGGATACTATGGTGATGCCCTCCAGCAGGACTGTGAAAGTGTGTCTGTAATTACCTGGGCACCGTGCAAGA
GCACTGTAAACGGCTCTGACTGCCAGTGCGACAAAGCCACTGGTTCAGTGCTTGTGTCTTCTAATGTGATCGGGCA
GAACTGTGACCGCTGTGCGCCCAATACCTGGCAGCTGGCCAGTGGCACTGGCTGTGACCCATGCAACTGCAATGC

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FIGURE 2385B

TGCTCATTCTTCGGGCCATCTTGCAATGAGTTCACGGGGCAGTGCCAGTGCATGCCTGGGTTTGGAGGCCGCAC
CTGCAGCGAGTGCCAGGAACTCTTCTGGGGGAGACCCCGACGTGGAGTGCCGAGCCTGTGACTGTGACCCAGGGG
CATTGAGACGCCACAGTGTGACCAGTCCACGGGGCAGTGTGTCTGCGTTGAGGGTGTGAGGGTCCACGCTGTGA
CAAGTGCACGCGAGGGTACTCGGGGGTCTTCCCTGACTGCACACCCTGCCACCAGTGCTTTGCTCTCTGGGATGT
GATCATTGCCGAGCTGACCAACAGGACACACAGATTCTTGAGAAAGCCAAGGCCTTGAAGATCAGTGGTGTGAT
CGGGCCTTACCGTGAGACTGTGGACTCGGTGGAGAGGAAAGTCAGCGAGATAAAAGACATCCTGGCGCAGAGCCC
CGCAGCAGAGCCACTGAAAAACATTGGGAATCTCTTTGAGGAAGCAGAGAACTGATTAAAGATGTTACAGAAAT
GATGGCTCAAGTAGAAGTGAAATTATCTGACACAACCTTCCCAAAGCAACAGCACAGCCAAAGAACTGGATTCTCT
ACAGACAGAAGCCGAAAGCCTAGACAACACTGTGAAAGAACCTTGCTGAACAACCTGGAATTTATCAAAAACTCAGA
TATTCGGGGTGCTTGGATAGCATTACCAAGTATTTCCAGATGTCTCTTGAGGCAGAGGAGAGGGTGAATGCCTC
CACCACAGAACCCAAACAGCACTGTGGAGCAGTCAGCCCTCATGAGAGACAGAGTAGAAGACGTGATGATGGAGCG
AGAATCCCAGTTCAAGGAAAAACAAGAGGAGCAGGCTCGCCTCCTTGATGAAGTGGCAGGCAAGCTACAAAGCCT
AGACCTTTCAGCCGCTGCCGAAATGACCTGTGGAACACCCCGAGGGGCTCCTGTTCCGAGACTGAATGTGGCGG
GCCAAACTGCAGAACTGACGAAGGAGAGAGGAAGTGTGGGGGGCCTGGCTGTGGTGGTCTGGTTACTGTTGCACA
CAACGCCTGGCAGAAAGCCATGGACTTGGACCAAGATGTCCTGAGTGCCCTGGCTGAAGTGAACAGCTCTCCAA
GATGGTCTCTGAAGCAAACTGAGGGCAGATGAGGCAAAACAAAGTGCTGAAGACATTCTGTTGAAGACAAATGC
TACCAAAGAAAAAATGGACAAGAGCAATGAGGAGCTGAGAAATCTAATCAAGCAAATCAGAACTTTTTGACCCA
GGATAGTGCTGATTTGGACAGCATTGAAGCAGTTGCTAATGAAGTATTGAAAATGGAGATGCCTAGCACCCCA
GCAGTTACAGAACTTGACAGAAGATATACGTGAACGAGTTGAAAGCCTTTCTCAAGTAGAGGTTATTCTTCAGCA
TAGTGCTGCTGACATTGCCAGAGCTGAGATGTTGTTAGAAGAAGCTAAAAGAGCAAGCAAAAGTGCAACAGATGT
TAAAGTCACTGCAGATATGGTAAAGGAAGCTCTGGAAGAAGCAGAAAAGGCCAGGTGCGCAGCAGAGAAGGCAAT
TAAACAAGCAGATGAAGACATTCAAGGAACCCAGAACCTGTTAACCTTCGATTGAGTCTGAAACAGCAGCTTCTGA
GGAAACCTTGTTCAACGCGTCCCAGCGCATCAGCGAGTTAGAGAGGAATGTGGAAGAACTTAAGCGGAAAAGCTGC
CCAAAACCTCCGGGGAGGCAGAATATATTGAAAAAGTAGTATATACTGTGAAGCAAAGTGCAAGATGTTAAGAA
GACTTTAGATGGTGAACCTTGATGAAAAGTATAAAAAAGTAGAAAATTTAATTGCCAAAAAACTGAAGAGTCAGC
TGATGCCAGAAGGAAAGCCGAAATGCTACAAAATGAAGCAAAACTCTTTTAGCTCAAGCAAAATAGCAAGCTGCA
ACTGCTCAAAGATTTAGAAAGAAAATATGAAGACAATCAAAGATACTTAGAAGATAAAGCTCAAGAATTAGCAAG
ACTGGAAGGAGAAGTCCGTTCACTCCTAAAGGATATAAGCCAGAAAGTTGCTGTGTATAGCACATGCTTGTAACA
GAGGAGAATAAAAAATGGCTGAGGTGAACAAGGTAAAACACTACATTTTAAAAACTGACTTAATGCTCTTCAAA
ATAAAACATCACCTATTTAATGTTTTTAATCACATTTTGTATGGAGTTAAATAAAG

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FIGURE 2386

CTCTTTTTCCGGCTGGAACCATGGTGGGTGTAGAAGAGAAGAAGAAGGTTCTGCTGTGCCAGAAACCCTTAAGA
AAAAGCGAAGGAATTTCTCAGAGCTGAAGATGAAGCGCCTGAGAAAGAAGTTTGCCCAAAAGATGCTTCGAAAGG
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAGGGAATATAGGCAGATGTACAGAACTGAAATTC
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTACTTTGTACCTGCAGAACCCAACTGGCATTGTGTCATCAGAA
TCAGAGGTATCAGTGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTACAATG
GAACCTTTGTGAAGCTCAACAAGGCTTCGACTAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC
CCAATCTGAAGTCAGTAAATGAACTAATCTACAAGAGTGGTTATGGCAAATCAATAAGAAGCGAATTGCTTTGA
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATATGGCATCATCTGCATGGAGGATCTGATTGATGAGATCT
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGAA
TGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA
GAAGAATGAACTAAGGTGTCTACCATGACTATTTCTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT
TGG

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FIGURE 2387

CTTCCTAGAAGGTAATGTACGAACTCGTCTCCAAAGGATACTTAGGTTGCACCAGTGTATTTGTAAAACAGGAGC ,
AAATTTGGACCTTGCCGGGCCAAAGTCGTGTCACGTGGAACCTCTTAATCTCAGCATCCGGAGCTCCAGGAAGGG
AAAATTTCAAGTCAGATAGAATTCTATATATACCATTTCTAGGAACCTTCAGCCCTCAAGATTCCAACATCATGA
CCTCAGTTTCAACACAGTTGTCCCTTAGTCCTCATGTCACTGCTTTTGGTGCTGCCTGTTGTGGAAGCAGTAGAAG
CCGGTGATGCAATCGCCCTTTTGTAGGTGTGGTTCTCAGCATTACAGGCATTTGTGCCTGCTTGGGGGTATATG
CACGAAAAAGAAATGGACAGATGTGACTTTGAAAGGCTACTGAGTCAAACCTCACCTGAAAACCTTTGCGCTT
TAGAGGCTAAACCTGAGATTTGGTGTGTGAAAGGTTCCAAGAATCAGTAAATAAGGGAGTTTCACATTTTTCATT
GTTTCCATGAAATGGCAACAAACATACATTTATAAATTGAAAAAAAATGTTTTCTTTACAACAAATAATGCACA
GAAAAATGCAGCCTATAATTTGCTAGTTAGGTAGTCAAAGAAGTAAGATGGCTGAAATTTACATAAGTAATATTT
CATAATCTTAGAATTCCTCTCAAAGCATGTGAAATAGGAAGAAGGAAGTTCTTGCCCAGAATCTTAGGAAATCACC
ACTGTTTCGGTTATAATCACTGCCCTCCTGAATCGTTGAGGAGTCTTTTAAATTAGATTTTGTGTTTGTGTCTCCC
AAGTTAATATTATATTTAGATATCAGAGAGTCAGGCAAAAAGGAAAACTTTATCTCTAGGGAAAAAACATTTAG
AAAAATGTATTCAGTGTATCTAATACTGAAATGCGGAAAAAAATTTAATGTTAAAAAAAACCTATAGACATTGAC
ATGGAAGAGATTTAATGTTTTGAAAAAAACCTTTATATTAAGTGAACATCCTCCTGATGAGAAGTACTAT
ATTAAATATAAACCCATTATGTTAT

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FIGURE 2388

MYELVSKGYLGCTSVFVKQEQIWTLPGQSRVTWNLLISASGAPGRENFKSDRILYIPFLGTFSPQDSNIMTSVST
QLSLVLSLLLVLPPVEAVEAGDAIALLLGVVLSITGICACLGVIYARKRNGQM

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FIGURE 2389

GAGTGGCTGTTGAGCGGCGCCGCGGGAGTTCCGCAGGTTTCCCGTGTTTCGCAGCGGAGCCGGAGGCCAGCTGAAC
CCGGCCGTGGGATCCCGGATAGGAGGAGGAGGGGACCCATAGGACGCGTTAACATGGACCTGGAAAACAAAGTGA
AGAAGATGGGCTTAGGTCACGAGCAAGGATTTGGAGCCCCCTTGTTTAAATGCAAAGAAAAATGTGAAGGATTCCG
AACTGCACCTTCTGGAGAAAAATATGTCGTAAGTGAAGTGTGGCCAAGAAGAGCATGATGTCCTCTTGAGCAATG
AAGAGGATCGAAAAGTGGGAAAACCTTTTTGAAGACACCAAGTATACCACTCTGATTGCAAACTAAAGTCAGATG
GAATTCCTCATGTATAAACGCAATGTTATGATATTGACGAATCCAGTTGCTGCCAAGAAGAATGTCTCCATCAATA
CAGTTACCTATGAGTGGGCTCCTCCTGTCCAGAATCAAGCAATTGGCCAGGCAGTACATGCAGATGCTACCCAAGG
AAAAGCAGCCAGTAGCAGGCTCAGAGGGGGGCACAGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATG
ACCAGGACCCCTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATATA
AGAGCGAAGCTCTGGGAGTAGGAGATGTCAAACCTCCCTGTGAGATGGATGCCAAGGCCCCAAACAAATGAACA
TTCTTGAGGGGATAGAAGCACCCAGCAGCAGTGGGGGCCATGGAGGACAAATCTGCTGAGCACAAAAGAACTC
AATATTCCTGCTATTGCTGCAAACCTGAGTATGAAAGAAGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATG
ATAAACTGTGGCACCAGCTTGTTTTGTCTGCAGCACCTGCCATGAACCTCTGGTTGACATGATTTATTTTTTGA
AGAATGAGAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCCGATGTGCTGGCTGTGACGAGCTGA
TATTCAGCAATGAGTATACCCAGGCAGAAAACCAAGTGGCACCTGAAACACTTCTGCTGCTTTGACTGTGATA
GCATTCTAGCTGGGGAGATATACGTGATGGTCAATGACAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACG
CTGTGGTGTGTCAAGGATGCCACAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTTAGCTGGC
ATGCATCCACAGAGTGCTTTCTGTGCTCTTGCTGCAGCAAATGCCTCATTGGGCAGAAGTTCATGCCAGTAGAAG
GGATGGTTTTCTGTTCAGTGGAATGTAAGAAGAGGATGTCTTAGGAGGAGGGCACCCAGAAGTATCGAGCCATAG
CTATCCAAAGTGGTCTGCATTTCTACTGTAAATGCAATTTGAAAAAATAAAACGCAAAAAAGAACTGTAA
GGAAACCAAGAGATTTTGTTTAATTTTTTGGCCATTTTTTCTTCATCAATTTTTTTTTCGGTCTCAACTTTTTAA
CTTGGTTTAAGCATTTGATTTGTAAACAGTAAATAATTGTATCTTTCCATAGCTTTTCAAATGTGAAATCATTT
TTGGAAGCTTGATCTCATTAAACTTCATGTCTCTATTCCATTTGTGCCACACACTTAAAAGTTAGTGTACTGAA
TGGAAGATGAGCATTCTAGTTCTACACTTCTTTTTTCCCCCTCATGTGTAAATGAAAAGAAAACATAATTTG
CCCTAATACCAAGGCGCTACGTTTATTGCCTCGTCTTATTCAGTACCTTTGTAATGATACACAGTGAATCTTT
TTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCTATGCATTTACTCTTTCCTGATTTAG
GCAGAGGTGGCATTTCCTTTATTGCATTTCTCTATTTTTTTAATGTACCCTACCTTCAGTATTCTCTTTGTAAGT
TGGTGAATGTCATCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTTCTT
TATTTTTTTTTTTTTTATTTTGAAGCAATTCTCCTGCCTCAGCTCCCAAATAGCTGGGATTACAGGTGCATGCCAC
CACACCCAGCTAATTTTTGTATTTTTTAGTAGAGACAGGTTTTACCATGTTAGCCAGGCTGGTCTCAAACCTCCTG
ACCTCAGATGATCCGCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGAGCCACCATGCCTGACCCA
CACACTTTTTACTTGTATAGATGATTTTTTGGCTTGGACATAAAAGCCAAGCCACCCATTTGCTTTTAATCCAAAG
AACATGTATAGTTTTTGTACCCAGAGACTATGATTTATATTGATTGCACTTGCCTGCCATGATTTAGATAAGATT
TTTTTGCATGGTTTTTATTCTTTCTAATGGATCCTGTTTATAATACTTCCAAGCCTGTCCATGGATATATCA
AATGTCTTCACTTGTATATTTTATGGCTAGGTATTTCTAATGTTTATTCTTCCCTGTGTACTTCTACACATAGC
TATGCACTATGAAAATTAAATGGAATGAATGATATGTATATTACTCAAATAAAGTTTCTTTCACTTT

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FIGURE 2390

MDLENKVKKMGLGHEQFGAPCLKCKEKEGFEHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTL
IAKLKSDGIPMYKRNVMLTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQLPKKQPVAGSEGAQYRKKQL
AKQLPAHDQDPSKCHELSPREVKEMEQQFVKKYKSEALGVGDVKLPCEMDAQGPKQMNIPGGDRSTPAAVGAMEDK
SAEHKRTQYSCYCCKLSMKEGDPAIYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCGRHYCDSEKPR
CAGCDELIFSNEYTQAEQNWNHLKHFFCCFDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRV
TYNNFSWHASTEFLCSCCSKCLIGQKFMPEGMVFCSVECKKRMS

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FIGURE 2391

GGGAGAAACGTTCTCACTCGCTCTCTGCTCGCTGCGGGCGCTCCCCGCCCTCTGCTGCCAGAACCTTGGGGATGT
GCCTAGACCCGGCGCAGCACACGTCCGGGCCAACC GCGAGCAGAACAAACCTTTGGCGGGCGGCCAGGAGGCTCC
CTCCCAGCCACCGCCCCCTCCAGCGCCTTTTTTTCCCCCATACAATACAAGATCTTCCTTCCTCAGTTCCCTT
AAAGCACAGCCCAGGGAAACCTCCTCACAGTTTTTCATCCAGCCACGGGGCCAGCATGTCTGGGGGGCAAATACGTAG
ACTCGGAGGGACATCTCTACACCGTTCCCATCCGGGAACAGGGCAACATCTACAAGCCCAACAACAAGGCCATGG
CAGACGAGCTGAGCGAGAAGCAAGTGTACGACGCGCACACCAAGGAGATCGACCTGGTCAACCGCGACCCTAAAC
ACCTCAACGATGACGTGGTCAAGATTGACTTTGAAGATGTGATTGCAGAACCAAGGGACACACAGTTTTGACG
GCATTTGGAAGGCCAGCTTCACCACCTTCAGTGTGACGAAATACTGGTTTTACCGCTTGCTGTCTGCCCTCTTTG
GCATCCCGATGGCACTCATCTGGGGCATTACTTCGCCATTCTCTCTTTCCTGCACATCTGGGCAGTTGTACCAT
GCATTAAGAGCTTCCTGATTGAGATTGAGTGCATCAGCCGTGTCTATTCCATCTACGTCCACACCGTCTGTGACC
CACTCTTTGAAGCTGTTGGGAAAAATATTCAGCAATGTCCGCATCAACTTGCAGAAAGAAATATTAAATGACATTTT
AAGGATAGAAGTATACCTGATTTTTTTTCTTTTAATTTTCTGGTGCCAATTTCAAGTTCCAAGTTGCTAATAC
AGCAACAATTTATGAATTGAATTATCTTGGTTGAAAATAAAAAGATCACTTTCTCAGTTTTTATAAGTATTATGT
CTCTTCTGAGCTATTTTATCTATTTTTTGGCAGTCTGAATTTTTTAAAACCCATTTAAATTTTTTCTTACCTTTT
TATTTGCATGTGGATCAACCATCGCTTTATTGGCTGAGATATGAACATATTGTTGAAAGGTAATTTGAGAGAAAT
ATGAAGAACTGAGGAGGAAAAAAAAAAAAAAAAAGAAAGAACCAACAACCTCAACTGCCTACTCCAAAATGTTGGTC
ATTTTATGTTAAGGGAAGAATTCAGGGTATGGCCATGGAGTGTACAAGTATGTGGGCAGATTTTTCAGCAAACCTC
TTTTCCCACTGTTTAAGGAGTTAGTGGATTACTGCCATTCACTTCATAATCCAGTAGGATCCAGTGATCCTTACA
AGTTAGAAAACATAATCTTCTGCCTTCTCATGATCCAATAATGCCTTACTCTTCTTGAAATTTTAACTATGAT
ATTTTCTGTGCCTGAATATTTGTTATGTAGATAACAAGACCTCAGTGCCTTCTGTTTTTCACATTTTCTTTTTT
AAATAGGGTCTAACTCAGCAACTCGCTTTAGGTGAGCAGCCTCCCTGAAGACCAAAATTAGAATATCCATGACCT
AGTTTTCCATGCGTGTCTTCTGACTCTGAGCTACAGAGTCTGGTGAAGCTCACTTCTGGGCTTCATCTGGCAACAT
CTTTATCCGTAGTGGGTATGGTTGACACTAGCCCAATGAAATGAATTAAAGTGGACCAATAGGGCTGAGCTCTCT
GTGGGCTGGCAGTCTTGGAAGCCAGCTTTCCCTGCCTCTCATCAACTGAATGAGGTGAGCATGTCTATTAGCTT
CGTTTTATTTTCAAGAATAATCACGCTTTCCCTGAATCCAACTAATCCATCACCGGGGTGGTTTAGTGGCTCAACA
TTGTGTTCCCATTTTTCAGCTGATCAGTGGGCCTCCAAGGAGGGGCTGTAAAATGGAGGCCATTGTGTGAGCCTATC
AGAGTTGCTGCAAACCTGACCCCTGCTCAGTAAAGCACTTGCAACCGTCTGTTATGCTGTGACACATGGCCCCCTC
CCCCTGCCAGGAGCTTTGGACCTAATCCAAGCATCCCTTTGCCAGAAAGAAGATGGGGGAGGAGGCAGTAATAA
AAAGATTGAAGTATTTTGTCTGGAATAAGTTCAAATTCCTTCTGAACTCAAACCTGAGGAATTTACCTGTAAACCTG
AGTCGTACAGAAAGCTGCCTGGTATATCCAAAAGCTTTTTTATTCCTCTGCTCATATTGTGATTCTGCCTTTGGG
GACTTTTCTTAAACCTTCAGTTATGATTTTTTTTTTTCATACACTTATTGGAACCTCTGCTTGATTTTGCCTCTTCC
AGTCTTCTGACACTTTAATTACCAACCTGTTACCTACTTTGACTTTTTGCATTTAAACAGACACTGGCATGGA
TATAGTTTTACTTTTAACTGTGTACATAACTGAAAATGTGCTATACTGCATACTTTTTAAATGTAAAGATATTT
TTATCTTTATATGAAGAAAATCACTTAGGAAATGGCTTTGTGATTCAATCTGTAAACTGTGTATTCCAAGACATG
TCTGTTCTACATAGATGCTTAGTCCCTCATGCAAATCAATTACTGGTCCAAAAGATTGCTGAAATTTTATATGCT
TACTGATATATTTTACAATTTTTTATCATGCATGTCTGTAAAGGTTACAAGCCTGCACAATAAAAATGTTTAAAC
GGTT

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FIGURE 2392

MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVRDPKHLNDDVVKIDFEDVIAEP
EGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVYSI
YVHTVCDPLFEAVGKIFSNVRINLQKEI

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FIGURE 2393

TTTGTGCGCCAGAAGGAAGATGGCGGATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAA
TTCATCATTTCATGCCCCCTCCTGGAGAATTTAATGAGGTTTTCAATGATGTTTCGGTTACTGCTTAATAATGACAAT
CTTCTCAGGGAAGGAGCAGCCCATGCATTTGCACAGTATAACTTGGACCAGTTTACTCCAGTAAAAATTGAAGGT
TATGAAGATCAGGTATTGATAACAGAACATGGCGACTTGGGAAATGGAAAGTTTTTGGATCCAAAGAACAGAATC
TGTTTTAAATTTGATCACTTAAGGAAGGAGGCAACTGATCCAAGACCCTGTGAAGTAGAAAAATGCAGTTGAATCA
TGGAGAACTTCAGTAGAAACTGCTCTGAGAGCTTACGTAAAAGAACATTACCCGAATGGAGTCTGCACTGTGTAT
GGCAAAAAAATAGATGGACAGCAAACCATTATTGCATGCATAGAAAGCCATCAGTTCCAAGCAAAAAATTTTGG
AATGGTCGTTGGAGGTCAGAAATGGAAGTTTACAATCACTCCTTCAACCACTCAAGTGGTTGGCATCTTGAAAATT
CAGGTTTCATTATTATGAAGATGGTAATGTTTCAGCTAGTGAGTCATAAAGATATACAAGATTCCCTAACAGTGTCT
AATGAAGTGCAAACAGCAAAAAGATTTATAAAGATTGTAGAAGCTGCAGAAAATGAATACCAGACTGCCATCAGT
GAGAATTATCAGACAATGTCGGGACACTACTTTCAAAGCCTTACGTCGACAGTTGCCAGTTACACGCACTAAGATT
GATTGGAACAAGATCCTTAGCTACAAGATTGGCAAAGAGATGCAGAATGCATTAAGATGAACATTGCATGACCGGA
TCATTTTAGTGTCTTTGC

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FIGURE 2394

MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFQAYNLDQFTPVKIEGYEDQVL
ITEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRTSVETALRAYVKEHYPNGVCTVYGKKIDG
QQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYEDGNVQLVSHKDIQDSLTVSNEVQTA
KEFIKIVEAAENEYQTASENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 2395

CTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGGCCACGT
GCAACCTGTTTCGCTGTACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCAATTCGAAA
CATAGTGGAGGCCGTAGCAGTCAGGGACATTTCTGAAGCAAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTGTA
TGGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGCAA
GGACCGAACACCCCCACCCAGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGC
TGAGTTCTTAAAGACTGAAGACAGGTTATTCTCTGGAGAAAAATAAAATGGAAATTGTA

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FIGURE 2396

TGGAGCTAAGCTGTTTCCAGGGTGACAGAGTGGCGACCTCGGTGGTCGATTGAGCAGGTCTGAGAATTGTTCCCA
AAGGGTTGTGCGTCACCGAGTCGTTGGCGCTGTCATCGCGGGTGTGCTGAAGAAGACCACTGGCCTTGTGGGATT
GGCTGTGTGCAATACTCCTCACGAGAGGCTAAGAATATTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCC
TAAAAATGCAGCATATAGAAAGTATACAGAACAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCAGA
TGTTAAAAAATTAGAAGACCAACTTCAAGGCGGTCAATTAGAAGAGGTGATTCTTCAGGCTGAACATGAACTAAA
TCTGGCAAGAAAAATGAGGGGAATGGAACTATGGGAGCCATTAGTGGAAGAGCCTCCTGCCGATCAGTGGAATG
GCCAATATAATTATTAAAGTGACTTTGGTGTGTTTCATGGGAACTGATGTAATTAAATATTCTGTTATATTAAGAG
CGTGTTCCTTATTACTGACATTTTGTAAATCAAGAAAAGTGATATAGAAAATATGTAGGAGACTGTTAAAATTGGTG
ATTATGGTAATATGGTCATGTGAATCAATTTTTGATTTATAAAGTACTCACACAAGTTGTTTCAAAGATGATATT
TCTGTGAACAGAGAGGCCATGGGAAGATTTGAAAATTATTAAAGAAAAATTCCTACAGATTTTCAATGCAGAGAC
CATAATCAAAAAGTAAACTTTTCTTTAGTAGTATGTTCAATACATCATTTAATTTTTTAAGTTATCCTGAAGAAGG
AAAGGTCCTTAATTATTATAGTCTAAACAAATTTATAGATTACTGTTTGAAGTAAATAATACGAGTGAATATTTT
CAAATGTGATAAAATAGCACAAAGTGGCTGGTGATAAAATTTGAAATTATGGTTAACCTCAGCTGTGATCTTATGT
ATGTAAAGTGAAATTTAAATAGATAATTATAGGTTGATTACAAAATCCATAGTGTCATTTTATTTTAGTCATTAT
TGAATTATACCATTTACTCTGTTTTCTTATAGTCTTAATTTTATTATATTTTGTGTTACTGTATTATATTTGAA
AACCTTCAAATTAGAATACATTGTACAGTTAAAGAAATTGACTTGGTACTTAAAAGAAAGATTTCCTATTGCATA
CAGGTTATTGGAGAAATTTTCCTTTTGTGTCATTTGTGGAAGTTAGTTTCTGGCCCGTGGCCTTTAATTTTCTT
AATCAACCTAATTACATCAGGATAGAGGTAGAGTTTCTGTAAAAGAAGAGACATTAAGAGTTCCTGAAATTTATA
TCTGGCATACCGATAGGCTTATATTCAAACATCTTAGTCATACGACCATAAATTAAGTGGAGTCACTAAATA
GTTTGCAGTACGTTTCTAATATAAGTGTAGGTGGGTATCAAACAAGACAAATGCTGTTTCAGGGAAAGAAGTTGG
CAAGCTTAAGGTTAAACAAAAATAAAATTACATGTGTTTTCGCCTTCCTA

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FIGURE 2397

MAGVLKKTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLEDQLQGG
QLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI

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FIGURE 2398

CCGCGTCGGTGCCCGCGCCCCCTCCCCGGGCCCCGCCATGGGCCTCACCGTGTCCGCGCTCTTTTCGCGGATCTTC
GGGAAGAAGCAGATGCGGATTCTCATGGTTGGCTTGATGCGGCTGGCAAGACCACAATCCTGTACAACTGAAG
TTGGGGGAGATTGTCACCACCATCCCAACCATAGGCTTCAATGTAGAAACAGTGGAATATAAGAACATCTGTTTC
ACAGTCTGGGACGTGGGAGGCCAGGACAAGATTCGGCCTCTGTGGCGGCACTACTTCCAGAACACTCAGGGCCTC
ATCTTTGTGGTGGACAGTAATGACCGGGAGCGGGTCCAAGAATCTGCTGATGAACTCCAGAAGATGCTGCAGGAG
GACGAGCTGCGGGATGCAGTGCTGCTGGTATTTGCCAACAAAGCAGGACATGCCCAACGCCATGCCCGTGAGCGAG
CTGACTGACAAGCTGGGGCTACAGCACTTACGCAGCCGCACGTGGTATGTCCAGGCCACCTGTGCCACCCAAGGC
ACAGGTCTGTACGATGGTCTGGACTGGCTGTCCCACGAGCTGTCAAAGCGCTTAAACCAGCCAGGGGCAGGCCCTG
ATGCCCGGAAGCTCCTGCGTGCTATCCCCGGGATGACCAGACTCCCGGACTCCTCAGGCAGTGCCCTTTCCTCCCA
CTTTTCCTCCCCCATAGCCACAGGCCTCTGCTCCTGCTCCTGCCTGCATGTTCTCTCTGTGTTGGAGCCTGGAG
CCTTGCTCTCTGGGCACAGAGGGGTCCACTCTCCTGCCTGCTGGGACCTATGGAAGGGGCTTCCTGGCCAAGGCC
CCCTCTTCCAGAGGAGGAGCAGGGATCTGGGTTTCCTTTTTTTTTTCTGTTTTGGGTGTACTCTAGGGGCCAGGT
TGGGAGGGGGAAGGTGAGGGCTTCGGGTGGTGTATAATGTGGCACTGGATCTTGAGTAATAAATTTGCTGTGGT
TTG

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FIGURE 2399

MGLTVSALFSRIFGKKQMRILMVGLDAAGKTTILYKLLGEIVTTIPTIGFNVETVEYKNICFTVWDVGGQDKIR
PLWRHYFQNTQGLIFVVDSDNRERVQESADELQKMLQEDEL RDAVLLVFANKQDMPNAMPVSELTDKLG LQHLRS
RTWYVQATCATQGTGLYDGLDWLSHEL SKR

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FIGURE 2400

GCGAGTAGAACGTGTGGCGGCGGCGGAGATCGCGTCTCTTTTCGCTCCGTGTCCCGCTGCTGCTCCTGTGAGCGCC
CGGCGAGTCCGTCCCGTCCACCGTCCGCAGCTGGTAGCCAGCCTGCCCTCGCCTCGACTCCCTTTACCAACAC
CGACACCCACATTGACACCTCCAGTCCGGCCAGCCGCTCCACTCGTTGCCTTTGCATCTCCACACATGGCGTCCT
CCGCGCAGAGCGGCGGCTCCTCCGGGGGACCCGCGGTCCCCACCGTGCAGCGGGGCATCATCAAGATGGTCCTCT
CAGGGTGCGCCATCATTGTCCGAGGTACGCTCGTGGTGGGCCTCCTCCTGAGCGGCAGATCAACCTCAGCAACA
TTCGTGCTGAAATCTTGCTCGCCGGGCAGCCGCCACACAACCTGATGCAAAGGATACCCCTGATGAGCCCTGGG
CATTTCAGCTCGAGAGTTCTTTCGAAAGAAGCTGATTGGGAAGGAAGTCTGTTTCACGATAGAAAACAAGACTC
CCCAGGGGCGAGAGTATGGCATGATCTACCTTGGAAGAGATACCAATGGGGAAAACATTGCAGAATCACTGGTTG
CAGAGGGCTTAGCCACCCGGAGAGAAGGCATGAGAGCTAATAATCCTGAGCAGAACC GGCTTTT CAGAATGTGAAG
AACAAGCAAAGGCAGCCAAGAAAGGGATGTGGAGTGAGGGGAACGGTTACATACTATCCGGGATCTCAAGTATA
CCATTGAAAACCCAAGGCACTTTGTGGACTCACACCACCAGAAGCCTGTTAATGCTATCATCGAGCATGTGCGGG
ACGGCAGTGTGGTCAGGGCCCTGCTCCTCCAGATTACTACCTGGTTACAGTCATGCTGTCAGGCATCAAGTGCC
CAACTTTTCGACGGGAAGCAGATGGCAGTGAACTCCAGAGCCTTTTGCTGCAGAAGCCAAATTTTTCAGTGA
CGCGACTGCTTCAGAGAGATGTTT CAGATCATTCTGGAGAGCTGCCACAACCAGAACATTCTGGGTACCATCCTTC
ATCCAAATGGCAACATCACAGAGCTCCTCCTGAAGGAAGGTTTCGCACGCTGTGTGGACTGGTCGATTGCAGTTT
ACACCCGGGGCGCAGAAAAGCTGAGGGCGGCAGAGAGGTTTGCCAAAGAGCGCAGGCTGAGAATATGGAGAGACT
ATGTGGCTCCCAACAGCTAATTTGGACCAAAGGACAAGCAGTTTGTGTTGCAAGGTGATGCAGGTTCTGAATGCTG
ATGCCATTGTTGTGAAGCTGAACCTAGGCGATTACAAGACGATTACCTGTCCAGCATCCGACCACCGAGGCTGG
AGGGGGGAGAACACCCAGGATAAGAACAAGAACTGCGTCCCTGTATGACATTCCTTACATGTTTGAGGCCCGGG
AATTTCTTCGAAAAAAGCTTATTGGGAAGAAGGTCAATGTGACGGTGGACTACATTAGACCAGCCAGCCAGCCA
CAGAGACAGTGCCTGCCTTTTCAGAGCGTACCTGTGCCACTGTACCATTTGGAGGAATAAACATTGCTGAGGCTC
TTGT CAGCAAAGGTCTAGCCACAGTGATCAGATACCGGCAGGATGATGACCAGAGATCATCACACTACGATGAAC
TGCTTGCTGCAGAGGCCAGAGCTATTAAGAATGGCAAAGGATTGCATAGCAAGAAGGAAGTGCCTATCCACCGTG
TTGCAGATATATCTGGGGATACCCAAAAGCAAAGCAGTTCTGCTCTTTCTTCAGCGGGCAGGTCGTTCTGAAG
CTGTGGTGGAAATACGTCTTCAGTGGTTCTCGTCTCAAACCTCTATTTGCCAAAGGAACTTGCCCTTATCACCTTCT
TGCTTG CAGGCATTGAATGCCCCAGAGGAGCCCGAAACCTCCAGGCTTGGTGCAGGAAGGAGAGCCCTTCAGCG
AGGAAGCTACACTTTTCACCAAGGAACCTGGTGTGTCAGCGAGAGGTGGAGGTGGAGGTGGAGAGCATGGACAAGG
CCGGCAACTTTATCGGCTGGCTGCACATCGACGGTGCCAACCTGTCCGTCTGCTGGTGGAGCACGCGCTCTCCA
AGGTCCACTTCACCGCCGAACGCAGCTCCTACTACAAGTCCCTGCTGTCTGCCGAGGAGGCCGCAAAGCAGAAGA
AAGAGAAGGTCTGGGCCCACTATGAGGAGCAGCCCGTGAGGAGGTGATGCCAGTGCTGGAGGAGAAGGAGCGAT
CTGCTAGCTACAAGCCCGTGTGTTGTGACTGAGATCACTGATGACCTGCACTTCTACGTGCAGGATGTGGAGACCG
GCACCCAGTTGGAGAAGCTGATGGAGAACATGCGCAATGACATTGCCAGTCAACCCCTGTAGAGGGCTCCTATG
CCCCCGCAGGGGAGAGTTCTGCATTGCCAAATTTGTAGATGGAGAATGGTACCGTGCCCGAGTAGAGAAAGTCG
AGTCTCCTGCCAAAATACATGTCTTCTACATTGACTACGGCAACAGAGAGGTCTGCCATCCACCCGCTGGGTA
CCCTATCACCTGCCTTCAGCACTCGGGTGTGCCAGCTCAAGCCACGGAGTATGCCTTCGCCTTCATCCAGGTGC
CCCAAGATGATGATGCCCCGACGGACGCCGTGGACAGCGTAGTTCCGGATATCCAGAACACTCAGTGCCTGCTCA
ACGTGGAACACCTGAGTGCCGGCTGCCCCCATGTACCCCTGCAGTTTG CAGATTCCAAGGGCGATGTGGGGCTGG
GCTTGGTGAAGGAAGGGCTGGTCATGGTGGAGGTGCGCAAGGAGAAACAGTTCCAGAAAGTGATCACAGAATACC
TGAATGCCCAAGAGTCAGCCAAGAGCGCCAGGCTGAACCTGTGGCGCTATGGAGACTTTTCAGCTGATGATGCAG
ACTGCCCTCGTCCAGCTCTCTGTCCAACCTGTTGATTATGTGATTTTCTGATACGTCCATTCTCAAATGCCAGT
GTGTTACATCTTCGCTCTGGCCAGCCCATCTGTATTTAAAGCTTTTGAGGCCCAATAAAATAGTACGTGCTGT
C

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FIGURE 2401

MASSAQSGGSSGGPAVPTVQRGIIKMVLSGCAIIVRGQPRGGPPPERQINLSNIRAGNLARRAAATQPDADTPD
EPWAFPAREFLRKKLIGKEVCFTIENKTPQGREYGMIIYLKDTNGENIAESLVAEGLATRREGMRANNPEQNRLS
ECEEQAKAAKKGMWSENGSHTIRDLKYTIENPRHFVDSHHQKPVNAIIEHVRDGSVVRALLLPDYLLVTVMLSG
IKCPTFRREADGSETPEPFAAEAKFFTESRLLQRDVQIIIESCHNQNILGTILHPNGNITELLKKEGFARCVDS
IAVYTRGAEKLRAAERFAKERRLRIRWDYVAPTANLDQKDKQFVAKVMQVLNADAIIVKLNSGDYKTIHLSSIRP
PRLEGENTQDKNKKLRPLYDIPYMFEAAREFLRKKLIGKKVNVTVDYIRPASPATETVPAFSERTCATVTIGGINI
AEALVSKGLATVIRYRQDDQQRSSHYDELLAAEARAIKNGKGLHSKKEVPIHRVADISGDTQKAKQFLPFLQKAG
RSEAVVEYVFGSRLKLYLPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEEATLFTKELVLQREVEVEVES
MDKAGNFIGWLHIDGANLSVLLVEHALSKVHFTAERSYYKSLLSAEEAAKQKKEKVWAHYEEQPVEEVMPVLEE
KERSASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIASHPPEGSYAPRRGEFCIAKFVDGEWYRARV
EKVESPAKIHVFYIDYGNREVLPESTRLGTLSPAFSTRVLPAQATEYAFAFIQVPQDDDDARTDAVDSVVRDIQNTQ
CLLNVEHLSAGCPHVTLQFADSKGDVGLGLVKEGLVMVEVRKEKQFQKVITEYLNQESAKSARLNLWRYGDFRA
DDADCPRPSSLSNC

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FIGURE 2402

TCGGAAGGGGCCAGGAGACACTGGAAGGTCCGGACGGCAGGGAAGGGGACGGGGTTCTTTCCAGTCCCACCCGTG
TAGGGACACCTCTCCCCCTCATCCCCGATGTACCCTCGCTGAATCTGGGATGGGAGAGACGAACCGAGTCTAGG
CATCTGCGTAGCAGCGCCGGGGAGAGCGGGGAGCCCAGGGCGGAGCCCAGTGCAGTCCCGGATTCCCCTGCCCCG
CCCCCGGCACGAGGCCCCGCCCCGGCGGCCCGCCCCCTCTCGGGACTCGACCGGGCTGCGCTCACTGCCCAGCC
GGGGCCCCGGGAGCCTCCAGGCTCCCGCCCCGCCCTGAGCTGCGGCCTCCGCATGGAGGGGGCCACTCACTCCACCA
CCGCTGCAGGGAGGCGGAGCCGCCGCTGTTCCGGAGCCCGGAGCCCCGCAACACCCGGGACACGAGACGGCGGGCG
CAGCGGTACAGCGCCCGACTGCTGCAGGCCGGCTACGAGCCCCGAGAGCCCTAGATTGGACCTCGCTACACACCCG
ACGACACCCCGTTCAAGTATCTTTCAGTGGTCTTACTGGCAGGTGTTGGTGTCCAGATGGATCGCCTTCGCAGG
GCTAGCATGGCGGACTACCTGATCAGCGCGGCCACCGGCTACGTGCCCCAGGATGGGCTCACCGCGCAGCAGCTC
TTCCGCAGCGCCGACGGCCTCACCTACAACGACTTCCTGATTCTCCAGGATTCATAGACTTCATAGCTGATGAG
GTGGACCTGACCTCAGCCCTGACCCGGAAGATCACGCTGAAGACGCCACTGATCTCCTCCCCCATGGACACTGTG
ACAGAGGCTGACATGGCCATTGCCATGGCTCTGATGGGAGGTATTGGTTTCATTACCACAACCTGCACCCCAGAG
TTCCAGGCCAACGAGGTGCGGAAGGTCAAGAAGTTTGAACAGGGCTTCATCACGGACCCTGTGGTGTGAGCCCC
TCGCACACTGTGGGCGATGTGCTGGAGGCCAAGATGCGGCATGGCTTCTCTGGCATCCCCATCACTGAGACGGGC
ACCATGGGCAGCAAGCTGGTGGGCATCGTCACCTCCCGAGACATCGACTTTCTTGCTGAGAAGGACCACACCACC
CTCCTCAGTGAGGTGATGACGCCAAGGATTGAAGTGGTGGTGGCTCCAGCAGGTGTGACGTTGAAAGAGGCAAAT
GAGATCCTGCAGCGTAGCAAGAAAGGGAAGCTGCCTATCGTCAATGATTGCGATGAGCTGGTGGCCATCATCGCC
CGCACCGACCTGAAGAAGAACCAGACTACCCTCTGGCCTCCAAGGATTCCCAGAAGCAGCTGCTCTGTGGGGCA
GCTGTGGGCACCCGTGAGGATGACAAATACCGTCTGGACCTGCTCACCCAGGCGGGCGTCGACGTCATAGTCTTG
GACTCGTCCCAAGGGAATTCGGTGTATCAGATCGCCATGGTGCATTACATCAAACAGAAGTACCCCCACCTCCAG
GTGATTGGGGGGAACGTGGTGACAGCAGCCAGGCCAAGAACCTGATTGATGCTGGTGTGGACGGGCTGCGCGTG
GGCATGGGCTGCGGCTCCATCTGCATCACCCAGGAAGTGATGGCCTGTGGTGGCCCCAGGGCACTGCTGTGTAC
AAGGTGGCTGAGTATGCCCCGCGCTTTGGTGTGCCCCATCATAGCCGATGGCGGCATCCAGACCGTGGGACACGTG
GTCAAGGCCCTGGCCCTTGGAGCCTCCACAGTGATGATGGGCTCCCTGCTGGCCGCCACTACGGAGGCCCTGGC
GAGTACTTCTTCTCAGACGGGGTGCGGCTCAAGAAGTACCGGGGCATGGGCTCACTGGATGCCATGGAGAAGAGC
AGCAGCAGCCAGAAACGATACTTCAGCGAGGGGGATAAAGTGAAGATCGCGCAGGGTGTCTCGGGCTCCATCCAG
GACAAAGGATCCATTCAAGATTCTGTGCCCTACCTCATAGCAGGCATCCAACACGGCTGCCAGGATATCGGGGCC
CGCAGCCTGTCTGTCTTCCGGTCCATGATGTACTCAGGAGAGCTCAAGTTTGAGAAGCGGACCATGTGCGCCCAG
ATTGAGGGTGGTGTCCATGGCCTGCACTCTTACGAAAAGCGGCTGTACTGAGGACAGCGGTGGAGGCCGAGGTGG
TGGAGGGGATGCACCCCAGTGTCCACTTTTGGGCACAGCCTCCCTCCATAACTGAGTGGTCCACAGATTTGCACT
ACGGGTTCTCCAGCTCCTTTCCAGGCAGAGAGGAGGGGAGGTCTGAGGGGACTGCTGCCCCCTCACTCGGCATCC
CCTGCAGAGTCAGGACTGCTCCCCGGGGCCAGGCTGCCCTGGGAGCCCCCTCCGAGCCAGCCAGCCAGGCTCTC
AGGCCCTGCGCCTGCCCTCAGGTCTTTCTTGCTGCAGCCTGCTCCAGCCTGGCCCCCAGCCAGGGCAGGCGGCC
CCTCCTGGCTTCTCCTGTAGGGCACCTCCCTGCCCTAGCCTCCAGGAAATGGTGTCTCTCTGGCCCTGCCTCT
GGCCCTTCCCCGGGCCGCTGCCCCCTAGCCATGTGGCACTTCTGAGCTCCTGACCTAGGCCAAGGGGAGGTCTCTG
CCCCCTTCCCCGGGCCCTGGGCTACCTTGGGTCTCTGCTCCTCAGGCCGCTCCCTGTCCCTGGCCATGGGTAGGA
GACTGCCCTGGTCATGGCCGCCTGCCTGTCTTCTGACTCACCACCGTCCCCAGGTGAACCATTCCTCCCTTCT
CCTCAGCTGCAGTCGAAGGCTTTAACTTTGCACACTTGGGATCACAGTTGCGTCATTGTGTATTAAATACTTGA
ATAAATCAAGCAGGT

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FIGURE 2403

TTTCCAGCCCCAGCCCCGGACCCCTGCAGCCGCAGAGATGTTGACGCCTAAGAAGAACCGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGATGGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCAGAGCTGGCAGACAA
GAATGTGCCCAACCTTCATGTCAATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACACTTTGC
CTGGAGACATTTCTACTGGTACCTTACCAATGAGGGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGA
GATTGTGCCTGCCACCCTACCCCGTAGCCGTCCAGAGACTGGCAGACCTTGGCCTAAAGGTCTGTATGTGAGGAG
TGCTGTGCTACCTGGTGGCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAATTCTAGTTTAGAGGCGG
ATTGGTCGTGGACGTGGTCAGCCACCTCAGTAAACTGGAGAGGATTCTTTTGATTGAATAAACTTACAGCCA
AAAAA

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FIGURE 2404

TGGGATTACAGGTAAGTGCCACCACACCCAGCTGATTTTTGTGTTTTTTGTAGAGACGAGGTTTCGCCATGTTTC
CCAGACTGTTCTCAAACCTCCTGAGCTCAAAGCAGTCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGTG
TGAGCCACCTTGCTCATTCTAGTTTAACTTTGGAGTGGTTTGTGTCTCCTGATTGGACTCCTGCAAATACAGAA
TTGATGCTAGGAAGGGTACCAGGAGATAGACGCACACAGATGGGATTTGGGAATAGGTTTGGTTATCCAAGGAGC
AGTGCTGAGCTCCTTGCTAATGGGATATGGGATGCTGGTGATTTCCAGTAAGTGACCTCAAATTAATCAGGCTA
CCACATACTGTTGATTGTGATGAAATGCCAGTTGAAGCACCTGTCTGCGAGCTTAGGGGTGCTACAAGTTGACC
ACTGCAGCAGTAAAGATGACTCTGAAGAATGGCATGGGATGGATCCTTTTGAATGCACCTTGAGCAGCGGTCTCCA
ACACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACCTCTGAATCCAGGAAGAGAGACTGACTGAGCA
ACATGTTATTACAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAAGACGCCCCACTGATTCTACATTATGCTCC
TACCTCCCGGCAGCCTCTCCAGGCCCAAGCTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATG
GCCTATTTAGGCCCATAACCTACGTCACGGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGG
CACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCCCTGAACTTT
CTCAAGTCGACCTCACCAGGCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGCC
CCCTCCAGGCCAGCCTCTGCCTCCCGTCGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCC
CAGCATCTGCCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTCCAGCAGCTTCTACACACCCAGCTCCTGC
CACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCCAGGCCCAACTTTTGTCTCATGGCAAC
CTTCCCTGGCCAGATTCTGCTGCTCTCCAGCAGCCTAGACAGGCCAGGGCCTCTCTACATGCAGCTTATGCC
TCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCCAGGACGTCATCTCCGGGCCCAAACTTACTCAAGTCAGACT
CTGTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTTGACCTTTCCAGGCCAG
CTCCTGCCTCCTGTGACGCTCTACAGGCCCAACCTCTACGTCATGGGGCTTCTCCAGGCCACCTCTTCTCTT
GGCTGGGTCTACAGGCACAACCTGCTGCCTCACACAGCCTTTTTTGGCCCAGTTCTGTCCAGCTCATGGCGGCC
AATGTAGGCCCAAACTTCTCAAGTCAAACCTCTCCAGGCCACCTTCTGCTTCCCAGTGGCATGAACAGGCCCA
GCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCAGGGGCTTTTTCCAGGCCAGCTCTTGCCT
CATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCATAGCTCCTCCCTCACAGTG
GCCATTTAGGCCCAACTCATGACTGTCGGGCCATTTCCAGGCCTAGTGCCTGCCTCGTGGCTGACTCTTGAAGC
CCAAAATTTCTCAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTCGGACTCTACAGGCCAGCCTCTGCCTCAC
AGTGGACCTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTTCGGCAGCCTCTC
CAGGCCAGCTCCTCCTGCCTCCAGTGGCCTCTTTCGGGCCAGC

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FIGURE 2405

MLLPGLSLSRPRTFSNQPLQTKLMTHNGLFRPIPYVTAVSADEPTAPQQPPQAQLHRYNGLFRPSSCLPAFSPGP
ELSQVDLTRPSSCFFAASPGPAPASWWPLQAQPLPPVGLYSPNICLTADSSRPASASLWTPQAKLPTFQQLLHTQ
LLPPSGLFRPSSCFTRAFFGPTFVSWQPSLARFLPVSQQPRQAQGLSTCSLCLTVASPGPTPVPGRHLRAQNLLK
SDSVVPTAASWWPMKAQNLLKLTFFGPAPASCQRLQAQPLRHGGFSRPTSSSWLGLQAQLLPHNSLFWPSSCPAH
GGQCRPKTSSSQTLQAHL LLPSGMNRPSFDLRTASAGPALASQGLFPGPALASWQLPQAKFLPACQQPQQA

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FIGURE 2406

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
AGACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAATCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCCTACGTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCCCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCACGCCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGTCGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGGCCAGCCCAGCTCATGCCTCCCGGCGCCTTCCCAAGCCCCGCTTTTGAC
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC
CTCACAGCGGACTCTC

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FIGURE 2407A

AGCCCAAACCGCGGCCCTAGCCCCGGCCGCACCCCCAGCCCGCGCCAGCATGATGAACAACAGCGGCTACTCAGA
CGCCGGCCTCGGCCTGGGCGATGAGACAGACGAGATGCCGTCCACGGAGAAGGACCTGGCGGAGGACGCGCCGTG
GAAGAAGATCCAGCAGAACACATTACGCGCTGGTGCAATGAGCACCTCAAGTGCCTGGGCAAGCGCCTGACCGA
CCTGCAGCGCGACCTCAGCGACGGGCTCCGGCTCATCGCGCTGCTCGAGGTGCTCAGCCAGAAGCGCATGTACCG
CAAGTTCCATCCGCGCCCCAACTTCCGCCAAATGAAGCTGGAGAACGTGTCCGTGGCCCTCGAGTTCCTCGAGCG
CGAGCACATCAAGCTCGTGTCATAGACAGCAAGGCCATCGTGGATGGGAACCTGAAGCTGATCCTGGGCCTGAT
CTGGACGCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGAGGATGAAGATGATGAGGATGCCCCGAAACA
GACGCCAAAGCAGCGGCTGCTTGGCTGGATCCAGAACAAGGTGCCCCAGCTGCCCATCACCAACTTCAACCGTGA
CTGGCAGGACGGCAAAGCTCTGGGCGCCCTGGTGGACAACCTGCGCCCCCGGTCTCTGCCCCGACTGGGAGGCCTG
GGACCCCAACCAGCCCGTGGAGAACGCCCGGAGGCCATGCAGCAGGCCGACGACTGGCTTGGGGTGGCCCAAGGT
CATTGCCCCGTGAGGAGATTGTGGACCCCAACGTGGATGAGCATTCTGTTATGACCTACCTGTCCAGTTCCCCAA
GGCCAAGCTCAAACCTGGTGGCCCTGTTCGATCCAAGCAGCTGAACCCCAAGAAAGCCATCGCCTATGGGCCTGG
CATCGAGCCACAGGGCAACACCGTGCTGCAGCCTGCCACTTACCCTGCAGACGGTGGACGCGGGCGTGGGCGA
GGTGCTGGTCTACATCGAGGACCCTGAAGGCCACACCGAGGAGGCTAAGGTGGTTCCCAACAATGACAAGGATCG
CACCTATGCTGTCTCCTATGTGCCCAAGGTGCTGGGTTACACAAGGTGACCGTGCTCTTTGCTGGCCAGAACAT
TGAACGCAGTCCCTTTGAGGTGAACGTGGGCATGGCCCTGGGAGATGCCAACAAGGTGTCAGCCCGTGGCCCTGG
CCTGGAACCTGTGGGCAATGTGGCCAACAAACCCACCTACTTTGACATCTACACTGCGGGGGCCGGCACTGGCGA
TGTTGCTGTGGTGATCGTGGACCCACAGGGCCGGCGGGACACAGTGGAGGTGGCCCTGGAGGACAAGGGTGACAG
CACGTTCCGCTGCACATACAGACCTGCCATGGAGGGGGCCACATACCGTGATGTGGCCTTTGCGGGTGCCCCCAT
CACCCGCAGTCCCTTCCCTGTCCATGTGTGGAAGCCTGTAACCCCAACGCCTGCCGCGCCTCTGGGCGAGGCCCT
GCAGCCCAAGGGTGTTTCGCGTGAAAGAGGTGGCTGACTTCAAGGTGTTTACCAAGGGTGCCGGCAGCGGGGAGCT
CAAGGTACGGTCAAGGGGGCCAAAGGGCACAGAGGAGCCAGTGAAGGTGCGGGAGGCTGGGGATGGTGTGTTTGA
GTGCGAGTACTACCCGGTGGTGCCTGGGAAGTATGTGGTGACCATCACGTGGGGCGGCTACGCCATCCCTCGCAG
CCCCTTTGAGGTACAGGTGAGCCAGAGGCAGGAGTGCAAAAGGTCCGGGCCTGGGGTCTGGTTTGGAGACTGG
CCAGGTGGGCAAGTCAGCCGATTTTGTGGTGGAAGCCATTGGCACCGAGGTGGGGACACTGGGCTTCTCCATCGA
GGGGCCCTCACAAGCCAAGATCGAATGTGACGACAAGGGGGATGGCTCCTGCGATGTGCGGTACTGGCCACGGA
GCCTGGGGAGTACGCTGTGCACGTCTCTGTGACGATGAGGACATCCGAGACTCACCTTCATTGCCCCACATCCT
GCCCCCCCCACCTGACTGCTTCCAGATAAGGTGAAGGCCTTTGGGCCCTGGCCTGGAGCCTACCGGCTGCATCGT
GGACAAGCCCGCTGAGTTCACCATGATGCTCGTGACGTGGCAAGGGAGACCTGAAGCTCTATGCCAGGACGC
CGACGGCTGTCCCATCGACATCAAGGTGATCCCCAACGGCGACGGCACCTTCCGCTGCTCCTACGTGCCACCAA
GCCCCATTAAGCACACCATCATCATCTCCTGGGGAGGCGTAACGTGCCCAAGAGCCCTTCCGGGTGAACGTGGG
CGAGGGCAGCCACCCCGAGCGGGTAAAGGTGTACGGCCCCGGAGTGAGAGAAGACAGGCCTCAAGGCCAATGAGCC
CACCTACTTCACGGTGGACTGCAGCGAGGCGGGGCAAGGCGACGTGAGCATCGGCATCAAGTGCGCCCCAGGCGT
GGTGGGCCCCGTGCAGAGGCTGACATTGACTTCGACATCATCAAGAATGACAACGACACCTTACCCTCAAGTACAC
GCCACCAGGGGCGGGCCGCTACACCATCATGGTGCTGTTTGCCAACCAGGAGATCCCCGCCAGCCCTTCCACAT
CAAGGTGGACCCATCCCACGATGCCAGCAAAGTCAAGGCCGAGGGCCCTGGGCTGAATCGCACAGGTGTGGAAGT
CGGGAAGCCCAACCACTTCACGGTGCTGACCAAGGGAGCCGGCAAGGCCAAGCTGGATGTGCAGTTTGAGGGAC
AGCCAAGGGCGAGGTTGTGCGGGACTTTGAGATCATAGACAACCATGACTACTCCTACACTGTCAAGTACACCGC
TGTCCAGCAGGGCAACATGGCAGTGACAGTGAATTTATGGCGGGGACCCTGTCCCCAAGAGCCCTTTGTGGTGAA
TGTGGCACCCCCGCTGGACCTCAGCAAAATCAAAGTTCAGGGCCTTAATAGCAAGGTGGCTGTGGGACAGGAACA
AGCATTCTCTGTGAACACACGAGGGGCTGGCGGTGAGGGCCAACTGGATGTGCGGATGACTTCGCCCTCTCGCCG
GCCATCCCCGTGAAGCTGGAGCCAGGCGGTGGAGCGGAAGCCAGGCTGTGCGCTACATGCCCCCGGAGGAGGG
GCCCTACAAGGTGGATATCACCTACGATGGTCACCCGGTGCTGGCAGCCCCGTTTGTGTGGAGGGTGTCTTGCC
CCCTGATCCCTCCAAGGTCTGTGCTTATGGCCCGGGTCTCAAGGTGGACTGGTAGGCACCCCGCGCCATTCTC
CATCGACACCAAGGGGGCTGGCACAGGTGGCCTGGGGCTGACCGTAGAGGGCCCCCTGCGAGGCCAAGATCGAGTG
CCAGGACAATGGTGATGGCTCATGTGCTGTGAGCTACCTGCCCACGGAGCCTGGCGAGTACACCATCAACATCCT
GTTTGCTGAGGGCCACATCCCTGGCTCGCCCTTCAAAGCCACCATTGCGCCTGTGTTTGACCCGAGCAAGGTGCG
GGCAGTGGAACGGGCTGGAGCGCGGCAAGGTGCGGTGAGGCAGCCACCTTCACTGTGACTGCTCAGAGGCAGG

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FIGURE 2407B

CGAGGCGGAGCTGACCATTGAGATCCTGTGCGGATGCCGGGGTCAAGGCCGAGGTGCTGATCCACAACAACGCGGA
TGGCACCTACCACATCACCTACAGCCCTGCCCTCCCTGGCACCTACACCATTACCATCAAGTATGGCGGGCATCC
CGTGCCCAAATTCCCCACCCGTGTCCATGTGCAGCCTGCGGTGCGATACCAGTGGCGTCAAGGTCTCAGGGCCTGG
TGTTGAGCCACACGGTGTCTGCGGGAGGTGACCACTGAGTTCACTGTGGATGCAAGATCCCTAACAGCCACAGG
CGGCAACCACGTGACGGCTCGTGTGCTCAACCCCTCGGGGGCCAAGACAGACACCTATGTGACAGACAATGGGGA
CGGCACCTACCGAGTGCAGTACACCGCCTACGAGGAGGGCGTGCATCTGGTGGAGGTCTGTATGATGAGGTTCG
TGTGCCCAAGAGCCCCCTTCCGAGTGGGCGTGACCGAGGGCTGTGATCCACCCGCGTCCGAGCCTTCGGGCCAGG
CCTGGAGGGTGGCTTGGTCAACAAGGCCAACCATTCACTGTGGAGACCAGGGGAGCGGGCACCAGGGGCGCTTGG
CCTAGCCATCGAGGGTCCCTCGGAAGCCAAGATGTCTGCAAGGACAACAAGGATGGTAGCTGCACCGTGGAGTA
CATCCCCCTTCACTCCTGGAGACTATGACGTCAACATCACCTTCGGGGGGCGGGCCATCCCAGGGAGCCCGTTCCG
CGTGCCAGTGAAGGATGTGGTGGACCTGGGAAGGTGAAGTGCTCAGGGCCAGGGCTGGGGGCTGGTGTGAGGGC
CCGGGTTCTCAGACCTTACAGTGGATTGCAGTCAAGCTGGCCGGGCGCCCCTGCAGGTGGCTGTGCTGGGGCC
CACAGGTGTGGCCGAGCCTGTGGAGGTGCGGGACAATGGAGATGGCACCCACACTGTCCACTACACCCAGCCAC
TGACGGGGCCCTACACGGTAGCCGTCAAGTATGCTGACCAGGAGGTGCCACGCAGCCCTTCAAGATCAAGGTCTCT
CCCAGCTCATGATGCCAGCAAGGTGCGGGCAGCGGCCAGGCCTCAACGCCTCTGGCATCCCTGCCAGCCTGCC
TGTGGAGTTCACCATCGACGCACGGGACGCGGGCAGGGGTTGCTCACTGTCCAGATCTTGGACCCCGAGGGTAA
GCCCAAGAAGGCCAACATCCGGGACAATGGGGATGGCACGTACACTGTGTCTTACCTGCCGGACATGAGTGGCCG
GTACACCATCACCATCAAGTATGGCGGTGATGAGATCCCCTACTCGCCCTTCCGCATCCATGCTCTGCCCCACTGG
GGATGCCAGCAAGTGCTCGTACAGTGTCCATTGGAGGCCATGGCCTGGGTGCCTGCCTGGGCCCTCGAATCCA
GATTGGGCAGGAGACGGTGATCACGGTGGATGCCAAGGCAGCCGGTGAGGGGAAGGTGACATGCACGGTGTCCAC
GCCGGATGGGGCAGAGCTCGATGTGGATGTGGTTGAGAACCATGACGGTACCTTTGACATCTACTACACAGCGCC
CGAGCCGGGCAAGTACGTACATCACCATCCGCTTCGGGGGTGAGCACATCCCCAACAGCCCCCTTCCACGTGCTGGC
GTGTGACCCCTGCCGCACGAGGAGGAGCCCTCTGAAGTGCCACAGCTGCGCCAGCCCTACGCTCCTCCCCGGCC
CGGCGCCCGCCCCACACACTGGGCCACAGAGGAGCCAGTGGTGCCTGTGGAGCCAATGGAGTCCATGCTGAGGCC
CTTCAACCTGGTCACTCCCTTCGCGGTGCAGAAAGGGGAGCTCACAGGAGAGGTGCGGATGCCCTCGGGGAAGAC
GGCACGGCCCAACATCACCGACAACAAGGACGGCACCATCACGGTGAGGTATGCACCCACTGAGAAAGGCCTGCA
CCAGATGGGGATCAAGTATGACGGCAACCACATCCCTGGGAGCCCTTACAGTTCTATGTGGATGCCATCAACAG
CCGCCATGTCAGTGCTTATGGGCCAGGCCTGAGCCATGGCATGGTCAACAAGCCAGCCACCTTCACTATTGTAC
CAAAGATGCTGGAGAAGGGGTTCTGTCACTGGCCGTGGAGGGCCCATCCAAGGCAGAGATCACTGTAAAGGACAA
CAAGGATGGCACCTGCACCGTGTCTATCTGCCGACTGCGCCTGGAGACTACAGCATCATCGTGCCTTCGATGA
CAAGCACATCCCGGGGAGCCCCCTTACAGCCAAGATCACAGGTGATGACTCCATGAGGACCTCACAGCTGAATGT
GGGCACCTCCACGGACGTGTCACTGAAGATCACCGAGAGTGATCTGAGCCAGCTGACCGCCAGCATCCGTGCCCC
CTCGGGCAACGAGGAGCCCTGCCTGCTGAAGCGCCTGCCCAACCGGCACATTGGGATCTCCTTACCCCCAAGGA
GGTCGGGGAGCACGTGGTGAGCGTGCAGCAAGAGTGGCAAGCATGTACCAACAGCCCCCTTCAAGATCCTGGTGGG
GCCATCTGAGATCGGGGACGCCAGCAAGGTGCGGGTCTGGGGCAAGGGGCTTTCGAGGGACACACATTCCAGGT
GGCAGAGTTCATCGTGGACACTCGCAATGCAGGTTATGGGGGCTTGGGGCTGAGTATTGAAGGCCAAGCAAGGT
GGACATCAACTGTGAGGACATGGAGGACGGGACATGCAAAGTCACCTACTGCCCCACCGAGCCCGGCACCTACAT
CATCAACATCAAGTTTGCTGACAAGCACGTGCCTGGAAGCCCCCTTCACTGTGAAGGTGACCGGCGAGGGCCGCAT
GAAGGAGAGCATACCCGGCGGAGACAGGCACCTTCCATCGCCACCATCGGCAGCACCTGTGACCTCAACCTCAA
GATCCCAGGAACTGGTTCCAGATGGTGTCTGCCAGGAGCGCCTGACACGCACCTTACACGCAGCAGCCACAC
CTACACCCGCACGGAGCGCACGGAGATCAGCAAGACGCGGGGCGGGGAGACAAAGCGCGAGGTGCGGGTGGAGGA
GTCCACCCAGGTGCGCGGGGACCCCTTCCCTGCTGTGTTTGGGGACTTCTGGGCCGGGAGCGCCTGGGATCCTT
CGGCAGCATACCCGGCAGCAGGAGGTGAGGCCAGCTCTCAGGACATGACTGCACAGGTGACCAGCCCATCGGG
CAAGGTGGAAGCCGCAGAGATCGTCGAGGGCGAGGACAGCGCCTACAGCGTGCGCTTGTGCCCCAGGAAATGGG
GCCCCATACGGTCGCTGTCAAGTACCGTGGCCAGCACGTGCCCCGCGAGCCCCCTTTCAGTTCACTGTGGGGCCGT
GGGTGAAGGTGGTGCCACAAGGTGCGGGCCGGAGGCACAGGGCTGGAGCGAGGTGTGGCCGGCGTGCCAGCCGA
GTTTACGATCTGGACCCGGGAGGTGGCGCTGGGGGCTGTCCATTGCTGTGGAGGGTCTAGCAAAGCGGAGAT
TGCATTTGAGGATCGCAAAGATGGCTCCTGCGGCGTCTCCTATGTCTGTCAGGAACCAGGTGACTATGAGGTCTC

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FIGURE 2407C

CATCAAGTTCAATGATGAGCACATCCCAGACAGCCCCTTTGTGGTGCCTGTGGCCTCCCTCTCGGATGACGCTCG
CCGTCTCACTGTCACCAGCCTCCAGGAGACGGGGCTCAAGGTGAACCAGCCAGCGTCCTTTGCCGTGCAGCTGAA
CGGTGCCCCGGGGCGTGATTGATGCCCGGGTGCACACACCCTCGGGGGCTGTGGAGGAGTGCTACGTCTCTGAGCT
GGACAGTGACAAGCACACCATCCGCTTCATCCCCACGAGAATGGCGTCCACTCCATCGATGTCAAGTTCAACGG
TGCCACATCCCTGGAAGTCCCTTCAAGATCCGCGTTGGGGAGCAGAGCCAGGCTGGGGACCCAGGCTTGGTGTC
AGCCTACGGTCCTGGGCTCGAGGGAGGCACTACCGGTGTGTATCAGAGTTTCATCGTGAACACCCTGAATGCCGG
CTCGGGGGCCTTGTCTGTACCAATTGATGGCCCCCTCAAGGTGCAGCTGGACTGTGCGGAGTGTCCTGAGGGCCA
TGTGGTCACTTATACTCCCATGGCCCCCTGGCAACTACCTCATTGCCATCAAGTACGGTGGCCCCCAGCACATCGT
GGGCAGCCCCCTTCAAGGCCAAGGTCACTGGTCCGAGGCTGTCCGGAGGCCACAGCCTTCACGAAACATCCACGGT
TCTGGTGGAGACTGTGACCAAGTCCCTCCTCAAGCCGGGGCTCCAGCTACAGCTCCATCCCCAAGTTCTCCTCAGA
TGCCAGCAAGGTGGTGAAGTCCGGGGCCCTGGGCTGTCCCAGGCCTTCGTGGGCCAGAAGAACTCCTTACCGTGGA
CTGCAGCAAAGCAGGCACCAACATGATGATGGTGGGCGTGACGGCCCCAAGACCCCTGTGAGGAGGTGTACGT
GAAGCACATGGGGAACCGGTGTACAATGTACCTACACTGTCAAGGAGAAAGGGGACTACATCCTCATTGTCAA
GTGGGGTGACGAAAGTGTCCCTGGAAGCCCCCTTCAAAGTCAAGGTCCCTTGAATCCCAAAAGTGCCTCCCCAGCC
TCAGCCCCCACCTCCAGCCACACACACATTACACACACACACACACACACACAAATGTGCCACACCCAGACACGC
ACAGAATCAGACACTACAAACACCTGCCTTGGGGGTGAAGTGAAGGCCAGCCTCCCCACCCACCGCGCCCCAG
GGGTTGGAGGACCTTGTCTGTGTGTCAGGACAGTGTCCCTCCCTGGGAATGTGACATGAGGGCCGACTGGGGCCAGG
CTCAGGGGCAGAGGCTGGGACACAAGGGGCTGGCGAGGGCTGCGAGGCCAGGGAAGCCCTGAGTTTCTGGCGGGG
CTGAGCAGTGGGGGAGCATTGTGTTGTGGGTGTCTGTGTGTGAGGTACCCCTCAAAGTGCACCGCCGGCCAGATA
CCCTCCTGACCCCGAGGACTTGGTCTGCTCTCTGGTGGCTACAACCCAGAGTTTAAAGGACTTGGAAGGAA
AGCACAATCAGAGAAGAAAACAGCCCCGAACCAGCAGGAGTGGCCTGGCACATGGACCGGCCTGAGCGATGTGC
ACTCCACCCAAGCCAGGCTCCCAGGGGGCCTGATTTCTCTCTCACTGTCTCTTTTTTAAATGGTTGCACGGCT
CTGCCCCATGGGGGGCCTTTTTTACACACTGCGAGGCCAGCTTTCTAGGGGACTTTTGCACATGTCATGCAGCT
CAGCTGGGAGCTGCTTAGGTGGAAAACCCAAATAAAGTGCGGCTGTGCG

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FIGURE 2408

MAPGNYLIAIKYGGPQHIVGSPFKAKVTGPRLSGGHS�HETSTVLVETVTKSSSSRGSSYNsipKFSSDASKVVT
RGPGLSQAFVGQKNSFTVDCSKAGTNMMMVGVHGPKTPCEEVYVKHMGNRVYNVTYTVKEKGTTSLSSSGVTKVS
LEAPSKSRSLKQKCLPSLSPHLQPNTHYIHTHTHTNVPHPDHTQNTLQTPALGVK

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FIGURE 2409A

GGAGGCGGGGCGGACCAAGAGCAGGAGCTGGAGTCTGAGCCGGTGGTTGCAGCGGAGGCGGTGATGTCGGTGCAG
GTTGTGTAGCCGCGGCTGCCGCCAAGGTGCCGTGAGGTGGAGCTGAAGGACCTGAGCCCCCTCCGAGGCGGAGTCG
CAACTAGGACTGAGCACGGCCGCGGTGGGCGCCATGGCCCCCGGCGGGCGGTGGAGACCCCTGAGGCTCCAGCT
CCCGCCGCGGAGCGGCCCCCGGTCCCCGGCCCGGGCTCGGGGCCCCGCCCGCTCTCAGCCCCGCCGCCGGGAAG
GTGCCTCAGGCGTCGGCCATGAAGCGGAGCGACCCACATCACCAGCACCAGCGGCACCGCGACGGCGGCGAGGCC
CTGGTCAGCCCCGACGGCACCGTCAACGAGGCGCCGCGCACAGTCAAGAAGCAGATCCAGTTTGTGTGACCAGAAG
CAAGAATTCAACAAACGTCCCACCÀAAATTGGACGTCGCTCTTTGTCTCGTTCCATTTCTCAGTCATCTACTGAC
AGCTACAGCTCAGCGGCTTCATATACAGATAGCTCTGATGATGAGACATCGCCCAGGGACAAGCAGCAAAAGAAC
TCTAAGGGAAGCAGTGACTTCTGTGTTAAGAACATCAAACAGGCAGAGTTTGGACGAAGAGAAAATTGAAATTGCT
GAACAAGAAATGCCTGCATTGATGGCTTTGAGGAAGAGAGCTCAAGGAGAAAAGCCTTTGGCTGGAGCCAAAATC
GTGGGTTGCACACACATCACTGCTCAGACTGCTGTGCTTATGGAACTCTGGGTGCTCTGGGGGCCAGTGCCGA
TGGGCTGCCTGCAACATCTATTCCACTCTCAATGAAGTGGCTGCTGCTCTAGCAGAAAGTGGATTTCTGTTTTT
GCCTGGAAGGGAGAGTCAGAAGATGACTTTTGGTGGTGTATCGATAGATGTGTGAATGTGGAGGGCTGGCAGCCA
AACATGATCTTGGATGATGGAGGGGATCTTACCCACTGGATTTATAAAAAGTATCCCAACATGTTTAAAGAAAATC
AAGGGCATAGTAGAGGAGAGTGTTACTGGAGTTCACAGGCTGTACCAACTGTCCAAAGCTGGGAAGCTGTGTGTT
CCAGCCATGAATGTCAATGACTCAGTCACCAAACAGAAATTTGACAACCTCTACTGTTGCCGTGAATCAATTCTT
GATGGACTTAAAGGACAACAGACATGATGTTTGGTGGAAAGCAAGTGGTAGTCTGTGGCTATGGAGAGGTGGGG
AAAGGGTGTGTGCTGCCCTGAAAGCCATGGGCTCCATTGTGTATGTAAGTAAATTGACCCCATCTGTGCCCTG
CAAGCCTGTATGGATGGATTTGACTGGTGAATTAATGAGGTATCCGACAAGTGGACATTGTTATTACCTGT
ACAGGTAACAAGAATGTGGTAACCAGAGAGCACTTGGACCGTATGAAGAATAGCTGCATCGTTTGTAAACATGGGA
CATTCCAACACAGAGATTGACGTGGCGAGTCTGCGGACACCAGAAGTACCTGGGAGCGAGTGAGATCTCAAGTT
GACCATGTGATATGGCCTGATGGCAAGAGGATAGTACTGCTGGCAGAGGGCCGCTGCTGAACCTTAGCTGCTCC
ACAGTGCCTACATTTGTGCTCTCAATCACTGCTACTACTCAGGCTCTTGCCCTTGATAGAGCTTTACAATGCTCCT
GAGGGTCGCTATAAGCAGGATGTCTACCTGTTGCCCAAGAAGATGGATGAGTATGTGGCCAGCCTACACCTGCCT
ACCTTTGATGCCCACTTGACAGAGCTGACAGATGAACAGGCCAAGTATCTGGGACTCAACAAGAATGGGCCCTTC
AAGCCTAATTACTACAGGTATTAAGTTCTGTAACTCAAACCAGAAATTTTAAAGGAATAGAAGTCCAAGCCTTTT
CTCCACTACTATAACAAGAAAGAATTAGCAAGCTGCTTCTCCAATCAAAGCTGCCTGCCGTGCTCACCCTGTGTG
TTAGGTTATTTATTTATTAATAAATCAAGAATCCTGTGCCTGTAGTGTGGCCAGAGTGTGGTTACTGCCCTGAGG
GCCATGAAAGCCACAGAGGATGGGCTGAGGAAGGAAAGAAATGGGGTTACTGCTCCAGTGCATCATTGCATCA
TTCCCCATTGACTGAATCCTCAGCAGTGGCCGTTTTTCTCTTGTCCAGGCTCACGAGTTAGTCCAGGGATTCCA
TACTCCCTATTCCCTGGAGTTTTCTGGAATAAAATTTTACGACCTGCTTTTCTCAGCTTGGCCCTTCCCCGGGTG
AGGCCGTTTTGGAATTAACATGGCCAGTGTTCACACAAGATTGGGTTCCCAATCTTGACCATCACTATCACTGCC
TTCTTTATATAAAGGCTAATAAGGAAGGAGTGTATTTATGGCTTTGCCAAGCTACATCAAGAACTCAGCTGTGC
TGTGCCTACCAGGGGTCTCCTTTCTTACCCAGGACTCCTTTCTTCTCCTTGAATATTTATGTCCATTTAACACT
TCCTGGTTGCAAGAGGGATGTGCCTCCATTATTTCTCCACAGTTTTGGTATTTGTGACACATTTGTTCTGCTGT
CTTTCTAATCCAGCCAACGTCTGCTCAGGAAGTGGGGCCAGCTCCACTGGGACCCATAGTTTTACTTCCTTGTC
TTTGATTGGATAGTTTCCAAGGAAGCCCCCTCCAGATTGGCACTATCTCAGAAAAGGAGAGCTTGTGTGAAACAC
TGCTTCCTGAAACTTCCTGCTATTGCCTAAAGCTACGTCTGAACTGAGTAGGGAAAGGCATACTTTTCCAGGGA
CTTAGGGGGATAGGCTTTGGAAATGGGACAGGTCTTTCAGACTCACAGCTTGATACCCTAACAAAGCAGAGTATA
TTTATTTGTTTCCAGGAAGGCCATTGCAGTTTGAAGCTCGTCAGACATTCATTCTTTGGCCATTGCCATGGATGAAAC
CGAGATCTGCAGTCTGATCTGTGGACTTCTCTGCTGGCATATCTTTTATGATTTAACCTCTTCCATTTGATGATT
CTGTATTTAGAGTCAGTTTCTTGAGTAACTCCAGTGCTACAAAAAGAAATTAGTAATGTGGTGTGGGCAGCGTGA
CATTTTATGTCCACCCAAAAATTGGATTCTTTTGGAGACTGATCTGTTGGTCTCAGGCATTTTCATTAGGACCA
GATTGGTTCTAAGAGTTAGTCTGGACTGGCCCTAGGAAACTTGAATTAAATAAGCCTCTTCCCCCTTACCGATCCT
TTTTAACACTCTCAGGTTTGTGTTTCCCACTTTTTTCTATGCTGGTCTGCCTCAAAGTCTCAAGACCAAGGT
GACTCAAGATAACACCAGACCACGCATGATCACAAAACCTTCCCATCCTGATTCTTCTTCTTACCTCTACCTT
CTCCAACCTTCTCCTGGTCTTCACATATACTCTCAAAGCTAGTCTGAAAGTGACCTTACTTTTGGGAAGTAGGGAAG

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FIGURE 2409B

TGGAAC TTTGGTAAATGACTGTTTGCCTCATT TTAATAGTATACAGGCTCAGCCCATAGACTACAGTTCTTCAGAG
GCCATATGTCTCAGCAAGTACTGGTTATATTCTTTTTTTGTAAGGAAGATCATAAATGCTAAAAATTCCACTAAG
CCATTTCAGTTCTTCTTTTGCCTACCTAGTCCTGATTTTTGTATTAATTGGTTCCCTTTAGCAAGGGATTTCAGAT
CTTTGTACCTTATCTTATATCCAGAGCAGATTCCATTGGCAGATAGATGGTCTCTAGCCTATTGTATTCTTAGA
CCAAAAATCATAACCTGCTGTTTCTCAGCAAAGCCTTGCTCTCTGGAGCTTACTATGTGCTGGTACTTAAAGAGT
ACATTCTGCCTTGCTGTAGTGAAGAGACCCACTCCAAATAAAAAAGGGGCCACACGGGGCTTCTAAGTTAGGTTG
CCAGTGTTGCTGCCCATGATGAGTTATTTGCCTCTGAGTTTCAGATGACCTCTCTGTAGGGGACACTGTGTTATCA
ACCATTAAGAAGAAAGAACCACAAGCCTCCCAAGTATTTGGGTTCTATCTTAGGGTTGAAATCTGGTCATTATTC
CCTCTACCCTTGGAATCAGAGCAATGTGTCTTCTTTTCTCCAACCTCTTACCTTAGATGCATCCTGGTTATCTGG
AAGCATGGGAAAGAAGGCTACTTATCTCTTTGTATGTGGCTCCAGTCTGTGAGGATACATAACATTTTCTCTACA
ATGAATCTGTGCTAATATTTTGCCTTCTTTCTTTCTTTTCTTTTACCCTTAGAGACAGGGTTTCACTATGTTGC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCTTCCTGAGTAGCTGGAACCACAGGTGT
GTGCTACCGTGCCTGGCACTTTTTTGCCTTCTTAATGGAGATATTCAGTTTTCTTTTTTTCATTTAAACAAAGAA
AAAAAATGTATCTACTCTACCTTCCCTCTGCTCTCCTCCCTCCCTATCCTACTTGCCCATATGAGCACGGCTCCC
CATGGCCACATACTCCTGCAAAGCTTTTATGCTGCTTCGCTTTTCTCTAAACAGATCTGATATTGCTGCTCCTGT
GGTTTTCTCAAATTAAC TTTGCCGTGGTTTTTAAAAAGGAATCAAATGCATTGTTGCATTAAGCTTTTTCAAT
AAAGGAAAATTACGGAAGGAAAATAGGCAACACCAGCAAATTATATGTGGACAGGTTCTAAACTCTATATATACA
TATATATATATATATCTATATATCTATATACGTAATCATCTAGTTCTGTCATCTTACTGAAAGGAATAACACTTC
TAAAGATCACCATTTCTGAGAAGTTCTTGAAATCTTTATGTCTAAGTGATTGTATTAGATCAGCAATAATGACT
ATGTAATCTCAAAAAACAAATAAAATATTCTTAACATGG

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FIGURE 2410

MSVQVVSAAAAAKVPEVELKDLSPSEAESQLGLSTAAVGAMAPPAGGGDPEAPAPAAERPPVPGPGSGPAAALSP
AAGKVPQASAMKRSDPHHQHQRHRDGGEALVSPDGTVTEAPRTVKKQIQFADQKQEFNKRPTKIGRRSLRSISQ
SSTD SYSSAASYTDSSDDETS PRDKQQKNSKGSSDFCVKNIKQAEFGRR EIEIAEQEMPALMALRKRAQGEKPLA
GAKIVGCTHITAQTAVLMETLGALGAQCRWAACNIYSTLNEVAAAALAESGFPVFAWKGESEDDFWWCIDRCVNVE
GWQPNMILDDGGDLTHWIYKKYPNMFKKIKGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCR
ESILDGLKRRTDMMFGGKQVVVCGYGEVGKCCAALKAMGSIVYVTEIDFICALQACMDGFRVLVKNLNEVIRQVDI
VITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVASLRTPELTWERVRSQVDHVIWPDGKRIVLLAEGRLLN
LSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPTFDAHLTELTDEQAKYLGLNK
NGPFPKNYYRY

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FIGURE 2411

AGTTCCTGGTCCAGAACTTTACACAGAAAAGGTGCTCAAAGGATATTTGTTTAAATGAATGTGGTATGCTGACATT
TAAACAGGACAAAACCTTGTAGAACTTCATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAA
GCACATGCAGTGGCCAGCAAGTGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCTGAT
GAAGACTCGCCTTCTTCTCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAG
GTGACAGCTCATCTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGAAAGAAACGG
AAACGGCCTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTTCGGAAACTTCGA
GCCACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGTCTCTGTATCTCACCCCTCCAAACCTAAC
CCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCGTAAGTACAAGAGCATGATCCTGGAAGAC
CTGGAGTCTGCTCTGGCAGAACACGCCCCGCGCCACAGGAGGTTAACTCAGAACTGCCGCTCTCACCATCGAC
GGAATTCCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCAGAGATGCTCAAGTACTCT
ACAGGTCGGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGTGGCCTGAAGATATCCCCTGGGCA
AATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTCATGGACCCAGGCACACGGACCATAGTT
AAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGTATGCCTTTGAAGATCAGCAAACGCAAACACAGGCC
ACAGCCACACATAGTATAGCTCATCTTGTACCATCACAGACTGTAGTCCAGACTTTTAGTAACCCTGATGGCACT
GTCTCACTTATCCAGTTGGTACGGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAATTGCCAACACGGTC
ACCGTTGCCCAAGTGAATTATTCTGCCGTGGCTGATGGAGAGGTGGAACAAAATTGGGCCACGTTACAGGGAGGT
GAGATGACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGCCA
GCTTCTCAGGAGATGCAGCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCCATGCTGTGCC
ACCCTGGCTGAGGCCACCTTACAAGGTGGGGACAGATCGTCTTGTCTGGGAAACCGCAGCAGCCGTCGGAGCA
CTTACTGGAGTCCAAGATGCTAATGGCCTCTTTATGGCAGATCGTGCAGGTGCAAGTGGATCCTGACTGACAAA
GCCACAGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTGACCAGCCTCGCCAGGGCAACGGACCA
GTGCAGGTGGCCATGGCCCCTGTGACCACCAGGATATCAGACAGCGCAGTCACCATGGACGGCCAAGCTGTGGAG
GTGGTGACATTGGAACAGTGACATACAGCCATATTATGGCATCGTTTTCTAGTCTACTTCAAAATTTTTTACACG
TTTGACAGAGGTGCAATCAAATGGAATTAAGTCTCTCGACTTTGGAAGGAAAGTTTTGTTAACCTTTTTTTTTTA
AAAGGAAGAAAGCGGATTTTGAATTGCATTTTTTAAAGCACCACTCTTGATTTTCTGGGATTGGTGAAGAACT
GCATTGTCAATTTCACTGTCCCAAAAAGCCAAATTGTGGCAGGACTTCTTTCTGCGGAAATGTGTGTGTATACT
TATGTGTGTGTATGTGTGAGTGTGAATATATGTATATGTGTACATATGGACATACACATTTACATATATATAAAG
TATATATATACATATATATATATATATATATGTATGAAACCCGCATGGAATTATCTGTATGAAATCAAGGTGCGCTG
TGGAAACAATAATTCACCCAGTTTAGTGGGTGGTAGGGTACGTGGCCAGACACAGTCACCCAGTTTTTGTTCATA
CCAGGGTCATGCGTTGAGCTACTGACAAACTCAGGCGGAGGTGACCATGCCCTTCACCAAAGCTGCCTCCCAGTG
GCCACACAGAACTCTCCCTGCTGGACTCACCTGAGGAAAGAGGCTCCAGCATGGGGTGGGTGAGAGATGTGCTTG
CAAGGTCCAGGGACTGCGTGGTCTGCCAGCTGAGATGCTCCTCGGGCTGGCCAGGTGCTGACCTTGCCACAGGC
AGATGAATGTCTTGAAAGCTCCCGGGCCTCAGCCTCCCATCTCCTCTCCTTCCCAGGAATCCTTGATCTCATGAC
TATTAATAATGTTGCTCTGGTTTTAAGGTCACTCCTGAATTGCTCGTATATATGAACTGAAGGTAACCGAAGTATT
AGGGGTTTGAGGAGTGCGTGCGTGTAAAGTGTGCTTGTGTGTGTGCGTGATGGTGGGGGAGAGGATGGGAAGGGG
GCGGGGGCAGTGGAAGGGAAAGGAAGGAAAGAAAAATCGTCCTAGACCAGGATACACCCGTGGGAGCAATTTTCT
CTACTGTCTGTAGCTTCACAGAGGAGGCGCTGGAATGAACAAGAAGAGACATCTGGTCTGTGGCCACAGCACCCCT
GAACGCCCCCTGATCTTGTGTGATCTTGGAAGCTAAGCTTGGTTGGGCCCGGTGAGTACGCGGAAGGGAAGAAGGG
ACACCTGGCCATAGAAAACAGCTGAGGGTGTGTGCTGTGTTCTGGATCAGGCCCTGCTTCAGAAGGGACTCCTG
GAGGCCCATGTTCTTGATGCAACCTCGTGGCCAGGCCGGGAGCAGCTTGCTCCTCAGAGGTGTTGACTATCT
GGGTGTTCTTGGTAAC

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FIGURE 2412

MEEHGVTTQTEHMAITIEAHAVAQQVQQVHVATYTEHSMLSADSDSPSSPEDTSYDDSDILNSTAADEVTAHLAAAG
PVGMAAAAATGKKRKRPHVFESNPSIRKROQTRLLRKLRLATLDEYTTTRVGQQAIVLCISPSKPNPVFKVFGAA
PLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWG
KESCKPIWWPEDIPWANVRSDVRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLYAFEDQQTQTQATATHSIAHL
VPSQTVVQTFSPNDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSADADGEVEQNWATLQGGEMTIQTTQA
SEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQDANG
LVQIPVSMYQTVVTSLAQGNGPVQVAMAPVTTTRISDSAVTMDGQAVEVVILEQ

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FIGURE 2413

GCCTCAAGAGGCGGATATTAACCTCCCAGGACGGAAGTTCCGGAGCCTTCAAACCTCTCGGGGAAGCAACTCGGCA
GCGGACCAAGATGGCGGCGCCCTGTGAGGGACAAGCGTTTGCCGTAGGGGTTGAAAAGAATTGGGGTGACAGTAGT
TCGCTCCCCAGAAGGGACCCCCCAGAAAATCCGGCAGCTGATAGATGAGGGGATTGCCCCGGAAGAGGGAGGCGT
GGACGCGAAGGACACGTCTGCCACATCCCAGTCAGTTAATGGATCACCCCAAGCGGAACAACCTTCATTGGAATC
TACAAGCAAAGAAGCCTTCTTTAGCAGAGTGGAACATTTTCTTCTTTGAAATGGGCAGGTAAGCCCTTTGAGCT
GTCTCCACTCGTCTGTGCAAAATATGGCTGGGTCACAGTGGAATGTGATATGCTCAAGTGCTCTAGCTGTCAAGC
TTTTCTCTGTGCCAGTTTACAACCAGCTTTTGACTTTGACAGATATAAGCAACGATGTGCTGAGCTGAAGAAAGC
CTTGTGTACTGCCCATGAGAAGTTCTGTTTTCTGGCCAGACAGCCCATCCCCAGACCGATTGGGATGTTGCCCT
GGATGAGCCTGCTATTCTTGTTAGTGAATTCCTAGATCGTTTTCAAAGCCTTTGTCACTTGGACCTCCAGCTTCC
TTCCCTAAGGCCGGAGGACTTGAAAACATATGTGCTTGACAGAAGACAAGATCAGTCTTCTCTACACTTGCTTGA
AGATGAACTTGATCACCGAACTGATGAGAGAAAACTACAATCAAATTAGGCTCAGACATCCAAGTCCACGTCAC
TGCCTGTATTCTCTCTGTGTGTGGCTGGGCGTGTAGTTCCTCTTTGGAATCCATGCAGCTCTCCCTGATAACATG
TTCGCAATGTATGAGGAAGGTGGGGCTCTGGGGCTTCCAGCAGATTGAATCGTCCATGACTGACCTGGATGCATC
CTTTGGCCTGACCAGCTCCCCAATCCCAGGCCTTGAGGGGCGACCAGAGCGCTTACCTCTGGTGCCTGAATCTCC
TCGGAGGATGATGACCCGGAGCCAGGATGCCACTTTCTCCCCAGGCTCAGAGCAGGCTGAAAAGAGCCCTGGTCC
CATTGTCTCTCGAACTCGGAGCTGGGACTCTTCCAGTCCTGTTGACCGTCCTGAGCCAGAGGCTGCTAGCCCCAC
CACCAGAACTCGCCCAGTGACCCGAAGCATGGGAACAGGAGACCCCTGGCCTGGAGGTACCATCTAGCCCTCT
GCGGAAAGCCAAGCGAGCTCGCCTCTGCTCCTCCAGCAGTTCCGACACATCTTCCGAAGCTTCTTTGATCCCAC
CTCTCAGCATAGAGACTGGTGCCCTTGGGTGAATATCACACTTGGAAGAAAGCAGGGAGAATGGTGGAAGTGA
ACCAGATGCCAGCGCCCCAGCAGAGCCAGGCTGGAAAGCAGTGCTGACCATCCTCTTGGCGCACAAACAGTCTAG
CCAGCCAGCTGAAACGGACTCCATGAGTCTCTCTGAGAAATCAAGGAAAGTATTCCGAATATTTTCGGCAGTGGGA
ATCTCTGTGCTCATGCTGAAGATACTCCAGCGCCTTCTGGAGATAGCTGGAATGAGAGTGACTTTTTGAAAAAT
TAAGGCTGAGTTCTTTTCGGTCAGCTGACACTAAGTTTTTCTGTTCTGGGTAAATCATAAGGAGCCCCCTGCCA
TAGCAAAGGCAGTGAGTGTCAACTATCTGCATCTGGCTGAGAGAGACCCGTTTCTTTTCAGGGATGTGGACAGGG
TAAGGGCAGCAAGCATGGTTCTGTAAAGGAGTGTGGGATTAACAGACTAGAAGGAAGACTAAGGACCTGACCAC
CCATTTTCAGCATCTTCAATGTGGAGCAGTGTTCTGAGGACTCTTCTATCCTAGGACTATGACAGTGTGTATTAAT
AAAATATTTGCTAAGATTCTCA

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FIGURE 2414

GGCGCTGACGCCTGGCAGGGAGAAGGCGGCAGCACATGCTGGGCTCGGGGGCGATGGGCTTGTGCGCGGACCTGG
CGACGCTCTAGCCCCGAGCCGCGTATTCGTGGCCGGGTCTCCCTGGGAACAGGGTGAAGGCCGAGAACCCTCTGG
CCTCAGGAAGCGCATGCGCAACCGGTTCTCCGAAACATGGAGTCCTGTAGGCAAGGTCTTACCTGAATCAGGATG

AGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGCTGCGTACCTGCACATCCCACCCCTCAG
CTCTCCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCACTTACAAGGGACTGCGTATCTTCTACCAA
GACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACACGGTTTTTCCAACATCCAGCTACGACTGG
TACAAGATTTGGGAAGGTCTGACCTTGAGGTTTTATCGGGTGATTGCCCTTGATTTCTTAGGCTTTGGCTTCAGT
GACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCATCGTGGAAGCGCTTTTGCGGCATCTGGGG
CTCCAGAACCGCAGGATCAACCTTCTTTCTCATGACTATGGAGATATTGTTGCTCAGGAGCTTCTCTACAGGTAC
AAGCAGAATCGATCTGGTCGGCTTACCATAAAGAGTCTCTGTCTGTCAAATGGAGGTATCTTCTGAGACTCAC
CGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTCAACCATCTCACACGACTGATGAACCTC
TTTGTATTCTCTCGAGGTCTCACCCAGTCTTTGGGCCGTATACTCGGCCCTCTGAGAGTGAGCTGTGGGACATG
TGGGCAGGGATCCGCAACAATGACGGGAACCTTAGTCATTGACAGTCTCTTACAGTACATCAATCAGAGGAAGAAG
TTCAGAAGGCGCTGGGTGGGAGCTCTTGCTCTGTAACATCCCCATTCATTTTATCTATGGGCCATTGGATCCT
GTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCCGCGGTCCACAGTGTGATTCTGGATGAC
CACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAATGCATATATGGGCTTCATCAACTCCTTC
TGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCTACTCCCTTATGTGTTGTGTATTCCACTTAGGAAGAAA
TGCCCCAAAGAGGTCTGGCCATCAAACATAATTCTCTCACAAAGTCCACTTTACTCAAATTGGTGAACAGTGTA
TAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCCACCTCCCATTACTTTGATATCTGATCAA
ATGTATAGACTTGGCTTTGTTTTTGTGCTATTAGGAAATTCTGATGAGCATTACTATTCACTGATGCAGAAAGA
CGTTCTTTTGCATAAAAGACTTTTTTTTAACTTTGGACTTCTCTGAAATATTTAGAAGTGCTAATTTCTGGCC
CACCCCCAACAGGAATTCTATAGTAAGGAGGAGGAGAAGGGGGGCTCCTTCCCTCTCCTCGAATGACGTTATGGG
CACATGCCTTTTAAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCTTTGTCATACCTTTGGATTTAGTGTTTCA
TCAGCTGTTTTTAGTTATAAACATTTTGTAAAAATAGATATTGGTTTAAATGATACAGTATTTTAGGTATGATT
AAGACTATGATTTACCTATACATTATATATTTTATAAAGATACTAAACCAGCATACCCTTACTCTGCCAGAGT
AGTGAAGCTAATTAAACACATTTGGTTTCTGAATAAATTGAACTAAATCCAACTATTTTCTAAATCACAGGAC
ATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTGGGAAGACCAATTCTAACAGCAAATAACA
GTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTTGTAGCTACAGTAGAGGGGAAGGGATTGTTGT
GTAGTCAAGTCACCATGTGTAATGTACACTGATTCCCTTTATGATGACTGCTTAACTCCCCACTGCCTGTCCCAGA
GAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGGAAAGTTCCAGAACTTTAAGAACAACT
CTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTTAAAGCCACATTTTATTGTCTTAGTCAAAGCAGG
ATTATTAAGTGATTATTTAAAATTCGTTTTTTTTTAAATTAGCAACTTCAAGTATAACAACCTTTGAACTGGAATAA
GTGTTTATTTTCTATTAATAAAAATGAATTGTGAC

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FIGURE 2415

MREWWVQVGLLAVPLLAAYLHIPPPQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLLHGFPTSSYD
WYKIWEGLTLRFHRVIALDFLGFGFSDKPRPHHYSIFEQASIVEALLRHLGLQNRRLNLLSHDYGDIVAQELLYR
YKQNRSGRLTIKSLCLSNNGGIFPETHRPLLLQKLLKDGGVLSPILTRLMNFFVFSRGLTPVFGPYTRPSESELWD
MWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIPIHFIYGPLDPVNPYPEFLELYRKTLPSTVSILD
DHISHYPQLEDPMGFLNAYMGFINSE

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FIGURE 2416

TGCTTGCTACCTAGAAAGGGAGACGAGGAAACACACATGTAGCTGAGCAAACCTAAACCAGTGCACCGCTGAAAACG
AGAGAAAAAGGATACAAACAGTCCAGAAACAATGTACTTTCTAGCATCATAAGCTGAAGTCTGAAGCTCCACTG
ACCTGTAGAGAAGCTCCTGAGCAACAATATCTCCATAGTCATGAGAAAGAAGTTGATCCTGCGGTTCTGGAGCC
CCAGATGCCGCAAAAAGCGCTTCCACGATGCTGGCCTGCTCAAATATGGAATAGTGATGTGGTCTCTGAGGAAAGG
AAAGCCCACATACACAGGATGAAGTCATGAGGACAGCTCTCTCTGCCAGCCTGACCCTCATAGTCTGCGTCTGCC
CCCACACCCCATCACCAGCCCCACATAGGTGCTGCTTACCGGTTTGTCACTGAAGCCAAAGCCTAAGAAATCAAG
GGCAATCACCCGATGAAACCTCAAGGTCAGACCTTCCCAAATCTACAAGAAAGAAACGATGATTTGGGCTTTCTG
CTCCTGCCCTTCCCTTTTACCAGACCTACAGTTGCACAGGAGCTTCAGCCCTATCTTGGCTTAACAGACTTCCAT
AAAGAGAAAACGCCATGAAACTACCACAGGTCCCACAGATGATCCTCTTGGAATGCTTTATTCCTGGTAATTA
ATCCCTGTTGAGGGAGGGTAACCTTGGCAGTGATCCCTTCCAGAGTGCCAAGGAGTTGTTTATTCCTTCAGTAAA
TAAGGAACAGTTCAACATTTAATGTTTTTTTTTAAAAGCAATTCAAATGTGCAAGAGCCTTCTGGTGCTGACAACAA
AATCCTTGAGGTTTTTTAAATTTTTATTAATAAAAAAATTTTTTTTTTGAGACAGACTCTCGCTCTGTCACCTAGGC
TGAAGTGCAGTGGTGCAATCTCAGCTCACTGCAACCTCTGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGATTACAGGCTTGTGCCACCATGCCTGGCCAATTTTTATACTTTTAGTAGAGATGGGGTTTT
GCCATGTTGGCCTGGCTGGTCTCAAACCTCCTGACCTCAGGTATCCTCCCACCTCAGCCTCCCAAAGTGCTAGGA
TTTGAGCCCCCGCGCCCGCCGAGATTTTTTAAGACATAGTAGGACGTAGAAGTCTGACTTCATTACCTTGTACC
AGTCGTAGCTGGATGTTGGAACCGTGTAAGACACAACCTATCTCTGGACTTCCAACCACACCCACAGAGTCTA
GGAAGAAGGAAAGTACAATCAATTATGCCAAATCCCTATAAAAAATAACCTCGAAGATGTTAAAAATCTAAGTAATC
TGATACAAAGAACAAGCAACTGTGACCAAAATGACATTAATAATGACACAATTATTTGTAATAATGTAAGCTTAACCT
GCGTTAGGTGAGAACAGGCCTTTTCTCCTTTCAATCTGTATATTAATAACATTGTAATAATCATGCTATGTGAAAA
TACTTGAAGGCACCTTGTTTACTTTACCTAGGTGTTTTTAAACAGCATCTCCCCATTTCTCCTTTTGTCTGTGTA
ATATGCAAATTTTTTTCAGTGAAAAGTAAATTTTCAGTTAAAGCATATGATCACAACACATAAACTACAAATTCT
TTGTACTTTATCATGAATGGCCTCACAGAAATTCTCTAAGATACAGCAACTATTCCCAAGGAACACCTTTAGCTT
ATGCTGTTTGCTCAGCACTTTTTATTTCAGCAGGAGACCCAATCTAACATCAAAAACATAATAAACTATTACAAA
ATCCTGTCAACTATAAAAAGGGCTTAATCAACATAAACATGAACTTTTTTAATGCATATGACAATATGGAAGCAT
TCAGCATCATCTAAATTAGGTAAACATTTAGACAATATTAACCTTGCTAATAGTATGGGATTAGAACAGGTATAT
TCATATACTGCCAGTGACATGAAAATTTGGTAATAAGGTTTTTCAAAAATAATTTAGAAGCAGTTAAAAATGTAT
ATACTTTAGCCTAAGAGTTTTGTTCTTGAGAATCTGTGCAATAAAATCATTCCATTTATACAAGTAGTATAGTT
TGAAAATGTAAGGAAAAATAAACTGTATGGACATGAAGCTTTTACTTCAACATTAGTTTTCTAAAACAGTAAAA
CTGGAAGTAACCCAAGCCAACATAATAAAAAATTGTATACTTACTTAATTGAATATAGCAAATGAGAGGAGGTCAG
GAGCAATAATGAAAAACGGTTTTATGACAAACATTTTTCGTTATTGCTCTTGACCCCGCTCAAAACAAATCATTT
CCAATCTGTTTCTCAGTTTTCTTACCTATAAAATGAGGTTAATGGCACCTATCTCCAAATGCTGTTGTAAAGATT
AAACAATGAAGGCTGAAAACATAACTCAGTGCCTGGCATATGGTAATTACTTGATAAGTAGTGGTCATAATAATC
ATCATCACTAGCAAATTAATTTATATAATGGTATCAAGACTTAAATCACAGTTACACTACAAATAATCTACAGAA
AAAAATGAAATCAGGGATGGTAAGGAGAGAGAACCAATGGTGGTTATATCTATTAATATTTTATATATTACCTGAC
AGGTTGCTC

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FIGURE 2417

TTTCCAGCCCCGGCCCCGGACCCTGCAGCTGCAGAGATGTTGATGCCTAAGAAGAACTGGATTGCCATTTATGAA
CTCCTTTTTTAAGGAGGGAGTCATGGTGGCCAAGAAGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAG
AATGTGCCCCAACCTTCATGTCATGAAGGCCATGCAGTCTCTCAAGTCCCGAGGCTACGTGAAAGAACACTTTGCC
TGGAGACATTTCTACTGGTACCTTACCAATGAGTGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCGGAG
ATTGTGCCTGCCACCCTACGCCGTAGCCGTCCAGAGACTGGCAGGCCTCGGCCTAAAGGTCTGTATATGAGGAGT
GCTGTGCTACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTCAGCAACCGAATTCTAGTTTAGAGGCGGA
TTTGTTGTGGACGTGGTCAGCCACCTCAGTAAACTGGAGAGGATTCTTTTGCATTGAATAAATTTACAGCCAA
AAAA

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FIGURE 2418

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCCACCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCAAGGGGTATGGTGCCATCACAAAGCAGATGTGGCA
GTATTTGAAGCCGTGTCCGGCCCCACCACCTGCCGACTTGTTGTCATGCCCTACGTTGGTATAATCACATCAAGTCT
TACGAAAAGGAAAAGGCCGGCCTGCCAGGAGTGAAGAAAGCTTTGAGCAAGTATGGTCCTGCCGATGTGGAAGAC
ACTACAGGAAGTGGAGCTACAGACAGTAAAGATGATGATGACATTGATCTCTTTGGATCCGATTATGAGGAGGAA
AGTGAAGAAGCAAAGAGGCTAAGGGAAGAACATCTTGACACAATATGAATCAAAGAAAGCCAATGATGAGACAGAT
ATGGCGAAATTAGAGGAGTGTGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCA
GTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTTGGAACAGATATGCTGGAG
GAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTTCAACAAGATCTTAAAAATCCATC
CTGGATCATG

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FIGURE 2419

MVPSQADVAVFEAVSGPPPADLCHALRWYNHIKSYEKEKAGLPGVKKALSKYGPADVEDTTGSGATDSKDDDDID
LFGSDYEEEESEEAKRLREEHLAQYESKKANDETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQIQCVVED
DKVGTDMLEEQITAFEDYVQSMDVAAFNKI

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FIGURE 2420

CTTCTTTGCGGAATCACCATGGCGGCTGGGACCCTGTACACGTATCCTGAAAACCTGGAGGGCCTTCAAGGCTCT
CATCGCTGCTCAGTACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAA
CCGCACCTCTGAATTTCTTCGCAAATTTCCCTGCCGGCAAGGTCCCAGCATTTGAGGGTGATGATGGATTCTGTGT
GTTTGAGAGCAACGCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCA
GGTGGTGCACTGGGTGAGCTTTGCTGATTCCGATATAGTGCCCCAGCCAGTACCTGGGTGTTCCCCACCTTGGG
CATCATGCACCACAACAAACAGGCCCACTGAGAATGCAAAGGAGGAAGTGAGGCGAATTCTGGGGCTGCTGGATGC
TACTTGAAGACGAGGACTTTTCTGGTGGGCGAACGAGTGACATTGGCTGACATCACAGTTGTCTGCACCCTGTT
GTGGCTCTATAAGCAGGTTCTAGAGCCTTCTTTCCGCCGGGCCTTTTCGAATACCAACCGCTGGTTCCTCACCTG
CATTAAACCAGCCCCAGTTCCGGGCTGTCTTGGGGGAAGTGAAGTGTGTGAGAAGATGGCCCAGTTTGATGCTAA
AAAGTTTGCAGAGACCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGGGTTTACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCGGAAGGAGGAGAAAAAGGCGGCTGCCCTGCTCCTGAGGAGGAGATGGATGAATGTGAGCAGGC
GCTGGCTGCTGAGCCCAAGGCCAAGGACCCCTTCGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTTAA
GCGCAAGTACTCCAATGAGGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTG
GTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGAACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGG
AATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTATCCTTTTTTGAACCAACAATAGCAG
CTCCATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCTTTCCGCTGAGTCCAGATTGGCAGGTGGACTA
CGAGTCATACACATGGCGGAAACTGGATCCTGGCAGAGAGGAGACCCAGACGCTGGTTTCGAGAGTACTTTTCCTG
GGAGGGGGCCTTCCAGCATGTGGGCAAAGCCTTCAATCACGGCAAGATCTTCAAGTGAACATCTCTTGCCATCAC
CTAGCTGCCTGCACCTGCCCTTACGGGAGATGGGGGTCATTAAAGGAACTGAACATTG

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FIGURE 2421

MAAGTLYTYPENWRAFKALIAAQYSGAQIRVLSAPPHFHFQTNRTSEFLRKFPAGKVPAFEGDDGFCVFESNAI
AYYVSNEELRGSTPEAAAQVVQWVSFADSDIVPPASTWVFPTLGIMHHNKQATENAKEEVRILGLLDAYLKTRT
FLVGERVTLADITVVCTLLWLYKQVLEPSFRRAFRNTNRWFLTCINQPQFRAVLGELKLCEKMAQFDAKKFAETQ
PKKDTPRKEKGSREEKQKPOAERKEEKAAAAPAPEEEMDECEQALAAEPKAKDPFAHLPKSTFVLDEFKRKYSNE
DTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGMFQRLDKLRKNAFASVILFGTNNSSSISGVW
VFRGQELAFPLSPDWQVDYESYTWRKLDPGREETQTLVREYFSWEGAFQHVKGAFNHGKIFK

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FIGURE 2422

ATCACCATGGCGGCTGGGACCCTGTACACGTATCCTGAAAACCTGGAGGGCCTTCAAGGCTCTCATCGCTGCTCAG
TACAGCGGGGCTCAGATCCGCGTGCTCTCCGCACCACCCCACTTCCATTTTGGCCAAACCAACCGCACCTCTGAA
TTTCTTCGCAAATTCCTGCCGGCAAGGTCCCAGCATTGAGGGTGATGATGGATTCTGTGTGTTGAGAGCAAC
GCCATTGCCTACTATGTGAGCAATGAGGAGCTGCGGGGAAGTACTCCAGAGGCAGCAGCCCAGGTGGTGCAGTGG
GTGAGCTTTGCTGATTCCGATATAGTGCCCCCAGCCAGTACCTGGGTGTTAGCCCAAGGCCAAGGACCCCTTCGC
TCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTTAAGCGCAAGTACTCCAATGAGGACACACTCTCTGTGGC
ACTGCCATATTTCTGGGAGCACTTTGATAAGGACGGCTGGTCCCTGTGGTACTCAGAGTATCGCTTCCCTGAAGA
ACTCACTCAGACCTTCATGAGCTGCAATCTCATCACTGGAATGTTCCAGCGACTGGACAAGCTGAGGAAGAATGC
CTTCGCCAGTGTATCCTTTT

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FIGURE 2423

GAAGGCCGCACCGTACTGGGCGGGGTCTGGGGAGCGCAGCAGCCATGGCAAGCCGTCTCCTGCTCAACAACGGC
GCCAAGATGCCCATCCTGGGGTTGGGTACCTGGAAGTCCCCTCCAGGGCAGGTGACTGAGGCCGTGAAGGTGGCC
ATTGACGTCGGGTACCGCCACATCGACTGTGCCCATGTGTACCAGAATGAGAATGAGGTGGGGGTGGCCATTGAG
GAGAAGCTCAGGGAGCAGGTGGTGAAGCGTGAGGAGCTCTTCATCGTCAGCAAGCTGTGGTGCACGTACCATGAG
AAGGGCCTGGTGAAAGGAGCCTGCCAGAAGACACTCAGCGACCTGAAGCTGGACTACCTGGACCTCTACCTTATT
CACTGGCCGACTGGCTTTAAGCCTGGGAAGGAATTTTTCCCATTTGGATGAGTCGGGCAATGTGGTTCCCAGTGAC
ACCAACATTCTGGACACGTGGGCGGCCATGGAAGAGCTGGTGGATGAAGGGCTGGTGAAAGCTATTGGCATCTCC
AACTTCAACCATCTCCAGGTGGAGATGATCTTAAACAAACCTGGCTTGAAGTATAAGCCTGCAGTTAACCAGATT
GAGTGCCACCCATATCTCACTCAGGAGAAGTTAATCCAGTACTGCCAGTCCAAAGGCATCGTGGTGACCGCCTAC
AGCCCCCTCGGCTCTCCTGACAGGCCCTGGGCCAAGCCCGAGGACCCTTCTCTCCTGGAGGATCCCAGGATCAAG
GCGATCGCAGCCAAGCACAAATAAACTACAGCCCAGGTCTGTATCCGGTTCCCCATGCAGAGGAACTTGGTGGTG
ATCCCCAAGTCTGTGACACCAGAACGCATTGCTGAGAACTTTAAGGTCTTTGACTTTGAACTGAGCAGCCAGGAT
ATGACCACCTTACTCAGCTACAACAGGAAGTGGAGGGTCTGTGCCTTGTGAGCTGTACCTCCCACAAGGATTAC
CCCTTCCATGAAGAGTTTTGAAGCTGTGGTTGCCTGCTCGTCCCCAAGTGACCTATACCTGTGTTTCTTGCCTCA
TTTTTTTCCCTTGCAAATGTAGTATGGCCTGTGTCACTCAGCAGTGGGACAGCAACCTGTAGAGTGGCCAGCGAGG
GCGTGTCTAGCTTGATGTTGGATCTCAAGAGCCCTGTCAGTAGAGTAGAAGTCTCTTCCAGTTTGCTTTGCCCTT
CTTTCTACCCTGCTGGGGAAAGTACAACCTGAATACCCTTTTCTGACCAAAGAGAAGCAAAATCTACCAGGTCAA
AATAGTGCCACTAACGGTTGAGTTTGGACTGCTTGGAACTGGAATCCTTTCAGCAAGACTTCTCTTTGCCTCAAA
TAAAAAGTGCTTTTGTG

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FIGURE 2424

MASRLLLNNGAKMPI LGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNENEVGVAIQEKLREQVVKREELFI
VSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILD TWAAMEELVD
EGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKL IQYCQSKGIVVTAYSPLGSPDRPWAKPED
PSLLEDPRIKAIAAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVDFELSSQDMTTLLSYNRNWRVCA
LLSCTSHKDYPFHEEF

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FIGURE 2425

GGCACGAGGCCTGAGCTCAGGAGTTTGAGACCAGCCTGTCTCTACTAACAATATAAAAAATTAGCTGGGAGTCACG
GTGGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGACAGAGGTTGTA
GTGAGCTGAGATCGCACCCTGCACTCTAGCCTTGGCAACAGTGCAAGACTGTCTCAAAAACAGCAACAGAGAGC
AGGACGTGAGACTTCTACCTGCTCACTCAGAATCATTCTGCACCAACCATGGCCACGTTTGTGGAGCTCAGTAC
CAAAGCCAAGATGCCCATTGTGGGCCTGGGCACTTGGGAAGTCTCCTCTTGGCAAAGTGAAAGAAGCAGTGAAGGT
GGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTATGTCTATCAGAATGAACATGAAGTGGGGGAAGCCAT
CCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGGGAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCCACTTTCTT
TGAGAGACCCCTTGTGAGGAAAGCCTTTGAGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCT
TATTCAGTGGCCACAGGGATTCAAGTCTGGGGATGACCTTTTCCCCAAAGATGATAAAGGTAATGCCATCGGTGG
AAAAGCAACGTTCTTGGATGCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGGCTGGTGAAGCCCTTGGGGT
CTCCAATTTAGCCACTTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTGACTAACCA
GGTTGAGTGTACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGC
CTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCAAGAT
TAAGGAGATTGCTGCAAAGCACAAAAAACCGCAGCCAGGTTCTGATCCGTTTCCATATCCAGAGGAATGTGAT
TGTCATCCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTCAGGTCTTTGACTTTAAATTGAGTGATGA
GGAGATGGCAACCATACTCAGCTTCAACAGAACTGGAGGGCCTGTAACGTGTTGCAATCCTCTCATTGGAAGA
CTATCCCTTCGATGCAGAATATTGAGGTTGAATCTCCTGGTGAGATTATACAGGAGATTCTCTTTCTTCGCTGAA
GTGTGACTACCTCCACTCATGTCCCATTTTAGCCAAGCTTATTTAAGATCACAGTGAACCTTAGTCCTGTTATAGA
CGAGAATCGAGGTGCTGTTTTAGACATTTATTTCTGTATGTTCAACTAGGATCAGAATATCACAGAAAAGCATGG
CTTGAATAAGGAAATGACAATTTTTTCCACTTATCTGATCAGAACAAATGTTTATTAAGCATCAGAACTCTGCC
AACACTGAGGATGTAAAGATCAATAAAAAAATAATAATCATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2426

MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLFI
VSKLWPTFFERPLVRKAFEKTLKDLKLSYLDVYLIHWPQGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVD
EGLVKALGVSNFSHFQIEKLLNKPGLKYKPVNTQVECHPYLTQEKLQYCHSKGITVTAYSPLGSPDRPWAKPED
PSLLEDPKIKEIAAKHKKTAAQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACN
VLQSSHLEDYPFDAEY

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FIGURE 2427

CAGAGTTTGGGCGCCAGGCGAGACGGCAGGGCTTAAAGTTCCGGGAATCAAAGATCAACTCCCCTGAGGACAAA
TGGACCTGTAATTCCGGGTGTGACGAGAGAACGAGATTTACCTTCCTGAATTAAAAAACAGGTCATTAAGCTTGG
GCCCTGACTTTTCTTTGTGAGAAGGTACAGAGATGGAAACCTTACAATCCGAGACTAAAACGAGGGTCCTTCCCT
CATGGCTGACAGCCCAGGTGGCTACAAAGAATGTGGCACCAATGAAGGCCCCCAAGAGGATGAGAATGGCAGCAG
TGCCAGTGGCAGCAGCAAGACTCCCTGCGACAAGGACTGTGTACTGCATGAATGAGGCTGAGATAGTTGATGTTG
CTCTGGGAATCCTGATTGAGAGCCGCAAACAGGAAAAGGCCTGCGAGCAGCCGGCCCTGGCGGGGGCTGATAACC
CAGAGCACTCCCCCTCCCTGCTCCGTGTGCGCTCACACAAGTTCTGGGAGCAGCAGTGAGGAAGAGGACAGTGGA
AACAGGCACTGGCTCCAGGCCTCAGCCCTTCCAGAGGCCGGGGGGTTCCAGCTCTGCCTGTAGCAGGAGCCCTG
AGGAGGAGGAGGAAGAGGATGTGCTGAAATACGTCCGGGAGATCTTTTTCAGCTAGGGGCATAAACTGTGCACTGA
ACTGTCTGCCGAGAGCAGCTGGAGGACAGCTGAGCTTCCACTGGTGCTGCTGGGCCGCCCGCCTGTGGGAATGGG
GCTCTCTGTGCTCCTACCTTTGTGCCTTCTTGGGCCTGGCAGATTACCTCAGGCCAGAAGCCCTGGACACTCC
GGGCCTTGGGGCTGCCGTTCTGAGTGTGCGGAAGGCAGGACTCAAATGAGATCCCATTGACTCCCTCTGTATG
TACTGTGCCCTCTCCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGTTCCAGGGA
AAATGATGTATGTGGTGGTCCAACCTTACTGGAACCAAAGAGACAGTACTTTGCAAAGAAAAGGATCACTGCCAG
GTGCACTGGAATTGCTACAGTTTAGTCCGCATGATCTCTCCTGAAGGAGGAAGCCTGTTTCAAAAATAGTTTCCA
TCATGAGTCTATCAATGAGCTCCCACCTCTCCAGCCAGCCTAGAAAGCAAACGAGCTGCCACAGTTCTCTGCCC
TGTCTGGGAGGTTGAGGCCACAGTGTATAGACTGGTAAGCCAGACAGGCCTCCTCCCGCAAGCTGCTACCTTGCT
TTCACCTGTACCTTGGTCCCCGGGCAGCTAGCTATAAAGCAAGAGGGACAGGAGCCCAGAAGAGACACTGAGGAC
AAGAGATCACACCAGAGTACATGTCTCTGCCTCTGTTTTCAGTGTGGCTTTGGACAGGAATATATGAATAAATCA
CTGCCATACAGGTTTTCCAATACACAAGTGCTAGAAAATACACACAATTCCCCAATGAAAAAAAAAAAAAAAAA

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FIGURE 2428

MKAPKRMRAAVFVAAARLPATRTVYCMNEAEIVDVALGILIESRKQEKACEQPALAGADNPEHSPPCSVSPHTS
SGSSSEEDSGKQALAPGLSPSQRPGGSSSACSRSPEEEEEDVLKYVREIFFS

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FIGURE 2429

GAGGTAGGCTCGGACCGGCCCGGGAGCTGCTGCAGTCCTTCGCGCCCTCCTCGCCCTCCCCACCGACATCATGC
TCCAGTTCCTGATACCAAACCTGGCTAAAAAATTGAAGAAATTA AAAAGGACTTGGATGCCAAGAAGAAACCCC
CTAGTGCATGAGACTGCCTCCAGCACTGCCTTCAGGATATACTGATTCTACTGCTCTTGAGGGCCTCGTTTACTA
TCTGAACCAAAAGCTTTTGTTCGTCTCCAGCCTCAGCACTTCTCTTCTTTGCTAGACCCTGTGTTTTTTGCTT
TAAAGCAAGCAAAATGGGGCCCCAATTTGAGA ACTACCCGACATTTCCAACATACTCACCTCTTCCCAT AATCCC
TTTCCA ACTGCATGGGAGGTTCTAAGACTGGAATTATGGTGCTAGATTAGTAAACATGACTTTTAATGAGTAGTG
TCTTCTTTATCGTTTGCGATTTTTTACTACCTTTTTTCAAAGAAAAATTGATGAGTTTTGTATAGCTGGTCAGAT
ACAAATAATAGTGACTTCACAGTTTAGTAATTATAATGGGTACTTGTTAAACATTTGGTACTAAATTATGTTGCT
GCAAAGTAATTA AAATTAGTATCTAGAGCTAGTTTCTGGTGAATTATTCATTTATTTTGTACTGTTGTTAGGCAG
CTCTGTAGTTGCTAATTTAACCAATAAGTCAATTTGCTATTCATGAAGAAACGATTCTGAGAATCCTGTCAGGAA
TTGGGG AATGAAAAAATACACAAAATAATGGTCTTTGTCCCAGTAGAGTTCATAGTCTATTTAGTGTGCATGTTT
TTCTTAATGATGTATTTGATCTGACTTTTTTCTCTCAAAGAAATCATACTTGGGATTACAGGTACATTTGAT
GTTATATGATGGATAAGTGAAAAGTTTTTAAAGGAGATTTTATACCTTTTCACATTA AAAAAGGTATTTATATTA
TTACTTTGTAGTGATTGTCTTAAGAAAAAATATAGCCAAATGTATAGTAAATCAGCAGCTCAAGAAGAATTTTC
TGCTTCTCTTTGTAGTTGATGCTTTGTTTTTCTGTCAGTCAGAAATTCCTTGATTTGTCAAATGTATAATCAG
CTTGATTGTTTTTAAATTA AAAAATTTGAATAATTA ACTTTTGCCATGGGACAAGATACAAAAGTAATTTCA
TATAAAGGCCTCTCCCACCCCTGTTCTCTGGCTCCTGGCTCCTGTTTGACAAGTTACTGTTACCACTTCGCCTT
ATACTTTTGAGAAAGAGTCTGTGCCTAAACAAACACGTGTAACACAAATAGTA ACTTATACATGGAGGTCTAGCCC
TCACCTTTTTTTTTCTTTTTTTTTCTTTTTTAATGGAGATCATTCTATACCAGCATGTAAGTAGCAAGGAACCTCA
TTCTTTTTTTGGCTGCCTAAAATTTTTTTGAATAGATATAACATAATTGATTTAATCTGCTACTGGTGAATGCTT
AGGTTGTTCTTTTGCTATTACAGTGATAACTTCAATCCTAATGTTATTAAGCATATCGATT CAGGGTATAGCTAT
AAGATGAAGTCCTAAAAGTATAATTTAGACTAAATACAAATACCCATTTGCTAGCTGTTTTGTTTCAGAGGACT
TGTTGAGCAGCTTCAC TAATAATGCCATTTTTGAAGACATGGCAGGTT CAGAATCAATAAACTGGAAGAATTGTT
CAGAGCATCTTTTTTCAGACAGTGATGACATTGATTCTGTATATGATAAAGTGATTCTGCTTCTCTTGACA ACT
TGCATCTCTCCTACATGGAAGTAAGTTTTATTCTGTCAATGTTGTCTTTGTGTGTGACAGATTAGGATTAAATT
ATGGTTTGACTTTTCTTAGCAGCGTGATCATGGGCAAGTGGCTTATTTTTTTTTTTTTTTTGAGACAGAGTCTC
ACTCTGCTGCCCAGGCTGGAGTGCAGTGGCACAGTCTTGGCTCACTGCAACTCCTGCCTCCCGGTCCAAGTGATT
CTCGTGCTGCAGCTTCTCAAGTAGCTGGCATCACCACACCTGGCTAATTTTTGTATTTTTTAGTAACGACGAG
GTTTCACCATGTTGGCAAAGCTGGTCTCAAATTCCTGGCCTCAAGTGATCTGCCCACCTCAGCCTCCCAAAGTGT
TGGGATTACAGGCGTGAGCCACTGCGCCCGGCTTTTTTAAACTTTTAGATTCATTTAATAGGTAAATTGCATGTC
ACGGGTTTGTAGCTTATTCTTTCAGAACTCTTGCAATTATCTGTAGACGTGGACGTAAATATCCACCTCATAGGG
TTTTCATAAAAAATAATTGAGATAATGTATGTAATGTTTCACAGTGCTTTGCAGACTATCTAATAAATAGTAGCT
ATTAGTACAAA

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FIGURE 2430

CGCGGAGGAGAAGAGGAAGAGGAAGTTGGGGGAGGGTCCTAGCGGGGAGTGAACCGGAAGTGTAAGGTTCTCTGC
CTCTCCTCGGCCAGGCGGAACCTCTCTGCTGGGCCCCGGTGGCCGCAAAAGAACTTTCTTTCTCCCGCCCGAACGG
TCGCCGCGGCCAACTGCCTCGCCCGCCTGGCAGCCTAACCCCTCCTTCTCTTCTCTCTCTCCGGCTTCGCGCGG
CCCTGCCTCCCTCTCGCCCGGCGGCATCCGCTTGCTGCTGCCACCGCCTCCTCATCTTCTGCCCGGCCAACCGGC
CTGCCCCGCTGCAGTGATGTGCGACAAGGAGTTCATGTGGGCCCTGAAAAACGGAGACTTGGATGAGGTGAAAGA
CTATGTGGCCAAGGGAGAAGATGTCAACCGGACACTAGAAGGTGGAAGGAAACCTCTTCATTATGCAGCAGATTG
TGGGCAGCTTGAAATCCTGGAATTTCTGCTGCTGAAAGGAGCAGATATTAATGCTCCAGATAAACATCATATTAC
TCCTCTTCTGTCTGCTGTCTATGAGGGTCATGTTTCTGTGTGAAATTGCTTCTGTCAAAGGGTGCTGATAAGAC
TGTGAAAGGCCCAGATGGACTGACCGCCTTTGAAGCCACTGACAACCAGGCAATCAAAGCTCTTCTCCAGTGATG
GATGGATGGACTGATAACTCCGGAAGAATGACTCTCCTGTGGCCTCACACTGCTGCCTGTCTGTCTGTCTGCTCTC
TATCTGCCAGCTTCTTCAGCTAAATACTTTAAGAGGGGTGAGGGGAGAGAGAAATTCATAACAAATCCGACTACC
AGAAAAAAAAAATTGTTTTGGAGGAGGGGCAAAAGGAACCATGATCAGGCTTTTACTGGGATTCTGATCAAGTA
AGCCTCTTCCCTTTCTAATAAAATATACACCTTATACCCAAGGGAGAGCAAAGACAAAATACACCAGTAACATTT
GACCTTTTTCAGCTCCCTAGCTAATTTATTAGATTGTGTTGAAGGTCTGATTCTACAAAGGCCAACTCTACATATT
TGGTAGCCCTAACTGTCTGAGCAGTAGTGGCTGCTGTGATGTAAACTTAGGGTGCTGAGATAAGCAATTAGCTCT
AGCCTTCTGCCTTAAGAATGCACTCTACTGGGGATTTCTTGGCATAAGTTAAGAGCGCTGCCTATAAGGTTGGTGA
CCAAATCTTTCCTCGGTGACTTTAAGCTTTATGTGAAAGCTTAGTTAAGGTGAGGAGGGGCACACTCCTAAATTG
CTGGATGACTGAACTTTGGATTTTCTCTCCCTTTTACATGGATTTCATGTCTCTTTAGATAAAACTGACTAGTT
TTATTTATAAAATCTTAAGTTTTGGAAGTCTAAAGGAGAAACCATTCAGTATGCATATTTTTTCTCCTCTAGA
TTCATACATTTATATAGCATTGAAACACTTTCAAACCTCCTGCTGGTAGTAAAAGGGGATTTAAAAATAGAATCAT
AGCCATAAGCCTGTTAGTATCATATGAAGAGAGAACAGTTATCTTAGTACCTATGGATTTTCTTTATTTGCTGTT
TGAATGGATTGACCTTGGTTATGTGTTGAGAATTAAGGAACATCTTTGAAATGCCTCTCTCAGACCCATCTTGG
AGGCTGATTACTTACTGCACCAAAGCTATCACTGGGGTGAGATTACTGTTTGGACAAATTTAGCCCCATCCCTT
CAAAAATACACTTGTAACCAGGTTTCCAGAGTTGTTGATAGGCTTCTGCTGAACATATGCCAACCCACCTGCAT
AATATATTTTTGTTGCTTTTATAAATCATGCATTACATAAAGTGTGACAACTTCAAATGTATTCTCTGTTCTTG
GAATACAGTGCCCTAAAATGGTGTCTTATGACCTGCAGAAAAATTTACACATAAATAAGCAATTGCAGTGTTT
TGCATGCAAAATATAAAAAATTTAAATTGCTGATTCTATTTTGTAATGGAGAAACAATCATATCTTTCTAAG
CGGTAATGGAGGAAGACTAGTGCTTTGTGCATTTTGATATATTGAGTTCATTTTTTCCACAATGTCATACTTTT
GACGCAGTTGGGTTTCTCATAAGTATCCTAGTTCATGTACATCCGAATGCTAAATAATACTGTGTTTTAAGTTTT
GTGTTGCAAGAACAATGGAATAAACTTGAATTGTGCT

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FIGURE 2431

MCDKEFMWALKNGDLDEVKDYVAKGEDVNRTLEGGRKPLHYAADCGQLEILEFLLLKGADINAPDKHHITPLLSA
VYEGHVSCVKLLLSKGADKTVKGPDLTA FEATDNQA IKALLQ

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FIGURE 2432

ATGAGGCGGTTTTTCAGTAGTACAGAGGGTACTTTGTCATATTAGACCTTTTCTGGCTCTTTTAACAAGGACGCTG
TTGCTTATTCCTAATAACAATGTCGTTCTCTGGCAGATTCATAGTCCACCAGTCCAGCTCTGGCCCAAGATCTCCT
CTCACCATGATCCCAAGTTATTCTTTCCGGATATCATTAGGAAAGGACAGCGAATCATCCCTTTTCATCCTCTTC
CCATATGCCAACCCCTCACTCCCTCTTTTCTTATTTGCAATCAGAGAGGGAAGAATGCAGATCTGCCAAGTGCGT
TATAAATACTGTGAAACAAAAGGGACGCTCTGGGGCAGCGCAGGAGGGGTACAGTCCTACAAGGTGTCCACCTCT
GGCCCTGGGCCTTCAGCAGCCGCTCCTGCACGAGTGGGCCCTGTGCCCGCATGAGCTCCTCGAGCTTCTCCCGA
GTGGACAGCAGCAGCTTTCGGGGTGGCCTGGGCAGCGGCTATGAGGTGAACCCCAACATCCAGGCCGTGCGCATC
CAGGGGAAGGAGCAGATCAAGACCCTCAACAAGAAGTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAG
CAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGACGACGACTCGGAGCAACATGGACAACATG
TTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGAAGCACTCTTCTTTTAAAAGTTTCTGA

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FIGURE 2433

CTCTTTCCCATCTTGCAAGATGGCGGGTGAAAAAGTTGAGAAGCCAGATACTAAAGAGAAGAAACCTGAAGCCAA
GAAGGCTGATGCTGGTGGCAAGGTGAAAAAGGGTAACCTCAAGGCTAAAAAGCCCAAGAAGGGGAAGCCCCATTG
CAGCCGCAACCCTGTCTATTGTCAGAGGAATTGGCAGGTATTCCCGATCTGCTATGTATTCCAGAAAGGCCATGTA
CAAGAGGAAGTACTCAGCCGCTAAATCCAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAA
ACCAGTTGGTGGTGACAAGAACGGCAGTACCCGGGTGGTTAACTTCGCAAAATGCCTAGATATTATCCTACTGA
AGATGTGCCTCGAAAGCTGTTGAGCCACAGCAAAAAACCCTTCAGTCAGCACGTGAGAAAACGCGAGCCAGCAT
TACCCCGGGACCATTCTGATCATCCTCACTGGACGCCACAGGGGCAAGAGGGTGGTTTTCTGAAGCAGCTGGC
TAGTGGCTTGTTACTTGTGACTGGACCTCTGGTCCTCAATCGAGTTCCTCTACGAAGAACACACCAGAAATTTGT
CATTGCCACCTCAACCAAAATCGATATCAGCAATGTAAAAATCCCAAAACATCTTACTGATGCTTACTTCAAGAA
GAAGAAGCTGCGGAAGCCCAGACACCAGGAAGGTGAGATCTTCGACACAGAAAAAGAGAAATATGAGATTACGGA
GCAGTGCAAGATTGAGCAGAAAGCTGTGGACTCACAAATTTTACCAGAAATCAAAGCTATTCTCAGCTCCAGGG
CTACCTGTGATCTGTGGTTGCCCTGACGAATGGAATTTATCCTCACAAATTGGTGTCTAAATGTCTTAAGAACT
TAATTAAATAGTTGACTAC

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FIGURE 2434

CAGGGCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTGTTATTGC
AGAATTGTTCCCTGGGTTGGCCGTTATATCCAGGAGCTTCGGAGTATGATCAGATTCCGTATATTTACAAAACACA
GGGTTTGCCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAAGTGGTTTTTCAACCGTGACACGGACTCACC
ATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAGTCAAAAAGCAAGAAA
GTACATTTTCAACTGTTTAGATGATATGGCCAGGTGAACATGACGACAGATTGGAAGGGAGCGACATGTTGGT
AGAAAAGGCTGACCGGCGGGAGTTTATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGAGAATCAC
TCCAATCGAAACCTGAACCATCCCTTTGTACCATGACACACTTACTCGATTTTCCCCACAGCACACACGTCAA
ATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCAAAACCCC
TTTCATCACGCACGTGGCCCCAGCACGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCACTGTCCA
CAACCAGGCTCCCTCCTCTACCACTGTTTCCCTTAGCCAATCCCGAAGTCTCCATACTAACTACCCATC
TACACTCTACCAGCCCTCAGCGGCATCCATGGCTGCACTGGCCAGCGGAGCATGCCCTGACAGACAGGAACAGC
CCAGATTTGTGCCCCGCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCTCCCGGCTTCCAAGGCTTGACGGC
CTCTCCCTCTAAGCACGCTGGCTACTCGGTGCGAATGGAAAATGCAGTTCCCATCGTCACTCAAGCCCCAGGAGC
TCAGCCTCTTCAGATCCAACAGGTCTGCTTGGCCAGCAGGCTTGGCCAAGTGGGACCCAGCAGATCCTGCTTCC
CCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCGAGACCAT
GGCAGGCACCCAGCAGCTGGCGGACTGGAGAAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGCA
GCCTGCACTATTGACCGGTCTGTGACCTTCCAGCAGCACAGCCCTTAAATGTGGGTGTGGCCACGTGATGCG
GCAGCAGCCAACAGCACCACCTCCTCCCGGAAGAGTAAGCAGCACCAGTCACTGTGAGAAATGTCTCCACCTG
TGAGGTGTCTCTCTCAGGCCATCAGCTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCTG
TGCCATGGTGCACAGTAGCCCGGCTGACGACCTCGGTACCTGTGGGTGGGGCGACGTGGCCTCCAGCACCAC
CCGGGAACGGCAGCGGCAGACAATTGTCACTCCCGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCAG
TGACACGGACGAGGAGGAGGAACAGAAACACGCCCCACAGCACTGTCTCCAAGCAAAAGAAAAACGTCACTAG
CTGTGTACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCCTACTCCGTGACGACGCTGC
TGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCCGAACCAT
CATCGTGCCACCCCTGAAAACCCAGGCCAGCAAGTATTGGTGGAGTGTGATAGCCTGGTGCCAGTCAACACCAG
TCACCACTCGTCTCTCTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCTC
ATCTGGAGCCATCACCTACCGGCAGCAGCGGCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCCA
GGCTCAGCAGCACATCACACGGACCGCACTGGGAGCCACCGAAGGCAGCAGGCCTACATCACTCCCAACCATGGC
CCAGGCTCCGTACTCCTTCCCGCACAAACAGCCCCAGCCACGGCACTGTGCACCCGCATCTGGCTGCAGCCGCTGC
CGCTGCCCCACCTCCCCACCCAGCCCCACCTCTACACCTACACTGCGCGGCGGGCCCTGGGCTCCACCGGCACCGT
GGCCACCTGGTGGCCTCGCAAGGCTCTGCGCGCCACACCGTGACGACACTGCCTACCCAGCCAGCATCGTCCA
CCAGGTCCCCGTGAGCATGGGCCCCCGGCTGCTGCTGCGCCACCATCCACCCGAGTCAGTATCCAGCCCAATT
TGCCCAACAGACCTACATCAGCGCTCGCCAGCCTCCACCGTCTACACTGGATACCCACTGAGCCCCGCCAAGGT
CAACCAGTACCTTACATATAAACTGAGGGGGAGGGAGGGAGGGAGGGAGGAGAATGGCCCCGAGGGAGGA
GGGAGAGAAGGAGGGAGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAAT
GCAAACGGGGCAGGGGCGGGGGGGGGGGGGGGGGGGGGGAGAGGGCAGGGGGACGGGTGCGGACACCAGTGAAACTTGA
ACCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTTTAAAGGAAGGGATTAAAGAGGGTGGGAAATCT
ATGTTTTTTATTTTAAAAAA

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FIGURE 2435

CCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTGTAAGAAAAGAAAATAGAA
GCCATGTTTTCGAAGACCTGTATTACAGGTACTTCGTCAGTTTGTAAAGACATGAGTCCGAAACAACCTACCAGTTTG
GTTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGGTCAGGACCCTGTCTTGAGACAGGTGGAA
GGAAAAATCCAGTCACAATATTTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAA
CTGGGTGATGTCAGTCAAAGACAACATGGCACAGAATATCAGTATTCGGCCAGGCCTCAGAGACGTGGCATAT
CAATATGTGAAAAAGGGTCTCGAATTTATTTGGAAGGGAAAAATAGACTATGGTGAATACATGGATAAAAAATAAT
GTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAG,
AAAGGATGATTCTTCTTTGGCCATCATTGTTGACAGTCTCATTTCGAAGTCATGTATAATCTTTATGGCTTCCAA
GGACAAGAATTAAATACTCTTTTACGT

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FIGURE 2436

MFRRPVQLRQFVRHESETTSLVLERSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRS GDSEVYQL
GDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIADNIIFLSDQTKEKE

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FIGURE 2437

GACCAGCCGTGCAAATCTCTAGAAGATGACGGTGTTCCTTTAAACGCTTCGAAATCACTGGAAGAAAACCTACAGC
TGGGCTCTGCCTGCTGACCTGGGGAGGCCATTGGCTCTATGGAAAACACTGTGATAACCTCCTAAGGAGAGCAGC
CTGTCAAGAAGCTCAGGTGTTTGGCAATCAACTCATTCTCCCAATGCACAAGTGAAGAAGGCCACTGTTTTTCT
CAATCCTGCAGCTTGCAAAGGAAAAGCTAGGACTCTATTTGAAAAAATGCTGCCCCGATTTTACATTTATCTGG
CATGGATGTGACTATTGTTAAGACAGATTATGAGGGACAAGCCAAGAACTCCTGGAACCTGATGGAAAACACGGA
TGTGATCATTGTTGCAGGAGGAGATGGGACACTGCAGGAGGTTGTTACTGGTGTTCCTCGACGAACAGATGAGGC
TACCTTCAGTAAGATTCCCATTGGATTATCCCACTGGGAGAGACCAGTAGTTTGAGTCATACCTCTTTGCCGA
AAGTGGAAACAAAGTCCAACATATTACTGATGCCACACTTGCCATTGTGAAAGGAGAGACAGTTCCACTTGATGT
CTTGACAGATCAAGGGTGAAAAGGAACAGCCTGTATTTGCAATGACGGCCTTCGATGGGGATCTTTCAGAGATGC
TGGCGTCAAAGTTAGCAAGTACTGGTATCTTGGGCCTCTAAAAATCAAAGCAGCCCACCTTTTTCAGCACTCTTAA
GGAGTGGCCTCAGACTCATCAAGCCTCTATCTCATACACGGGACCTACAGAGAGACCTCCCAATGAACCAGAGGA
GACCCCTGTACAAAGGCCTTCTTTGTACAGGAGAATATTACGAAGGCTTGCCTCTACTGGGCACAACCACAGGA
TGCCCTTTCCCAAGAGGTGAGCCCGGAGGTCTGGAAGATGTGCAGCTGTCCACCATTGAACTGTCCATCACAAC
ACGGAATAATCAGCTTGACCCGACAAGCAAAGAAGATTTTCTGAATATCTGCATTGAACCTGACACCATCAGCAA
AGGAGACTTTATAACTATAGGAAGTCGAAAGGTGAGAAACCCCAAGCTGCACGTGGAGGGCACGGAGTGTCTCCA
AGCCAGCCAGTGCACCTTTGCTTATCCCGGAGGGAGCAGGGGGCTCTTTTAGCATTGACAGTGAGGAGTATGAAGC
GATGCCTGTGGAGGTGAAACTGCTCCCCAGGAAGCTGCAGTTCTTCTGTGATCCTAGGAAGAGAGAACAGATGCT
CACAAGCCCCACCCAGTGAAGCAGCAGAAGACAAGCACTCTGAGACCACACTTTAGGCCACCGGTGGGACCAAAAG
GGAACAGGTGCCTCAGCCATCCCAACAGTGTCTGTCAGAGGGTCCCCAGGGCATTTTTCATGGCAAGTACCCCTCTG
CCCCACTCCAGCAGTGCTTCCCAAGTGTGCTCTGTCACTGCTTTGCAATCGGCTTCCATTAGCGCATGTTTT
ATTTTGGTGTGACGGTTGGCCCTCCTAAACACGGACTTTCTCAGGCTGGTTCAAGACGGAAAAGGACTTTCTTC
TGTTTTCTTCCAAAGTGCAACCACAGTGGAGAGCCACGGTGGGCTTAGCCTGCCTAGGCCCTTCCATTCTCTT
CTTTGACCGTGCTAGGAATTCCAGGAAAGTGCAATCCTGCCCTGGTGACCTTTTCTATGTCTAGGCTCCTCCAC
AGGTGCTGCTATTTTGTGAGCTCCGGCCTCTGTTTAGCTTTTATTTTCAGTTCTAACCTCAGTCCAGAAACATATG
TGAGGTTGTTTTCCCTCTTCAGCCACGGCTACAATACCGGAAAATGCTAGTTTTTATTTATTTTTTAAAGTAGTGC
TTCCTAAATGGTTTGCATGAGAGCCACCTGGGGTACATGTTGAAAACCTATTGTTGGGTCTACCCCAACCTAATA
ACCCAAATTTGGGGATGGGGCCAGGAATATGCATTTTAAAAAGTCATCTGCCCTTCCCAGGTGATTCTGTAAAG
TTGTCCCTCAACTGTACTTGGAGAAATCGTGTTTTAAAGCAGTAGTCCACAAAGTATTCTGCTCATGTGCCCCCA
AAAGTATTTTGA AAAATCATGTATACCTCACCCATCTAAGTTGATATCTAAATTTTATCTAAGTTGGTATCTA
AAATTTTTCATGGGAAGTTAAATAGTTGACAAAGTATGTATTTGCTGGTGTCTGTAAATATTGGTATTTTAAAA
TAAAAACTGTTACATCACTATTTTAAACATATCCAGTACAATTTAAATATCACAACAATTTGACACCCCTTCATTC
ATTTATAAAAATAAATGAGCTAGTTCTTTAGTAGTTAAACATTTCAAATTGGCTTTTCTCCTTCTGTATTTCCAT
ACCACTTTTCAGCCAAGAATCCTATCATAATGTAATCTATTATGCCCGACATCTTTTAAATCATTACCCCCATTAC
TTCTTGTCAACAAAAAATATAAATGGAAATTTTTTTTTTAGCTCTTGCTTTAAGTGTGTTGTTTGTATCTCAGTC
CAGAACCAATATTATCGTAATTAATTATTGGTATATAATGAAAACGGTATTAATTCTTGGATGATTAAAGTTTT
TTTATTAGAATGTTCTTTATCCTAATTAGTTTCAATTTATCCAAGAATACATGAATGTGATTTACAGCTGAGATGGG
GTTCAACCTCAGCTGTATTCCTTGTTTCTGTATAGATGTAAGCACATAAATTCGATGGAATAGAATTACGTTAAC
AATGAAAAAAAAAAAAAA

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FIGURE 2438

MTVFFKTLRNHWKKT TAGLCLLTWGGHWLYGKHCDNLLRRAACQEAQVFGNQLIPPNAQVKKATVFLNPAACKGK
ARTLFEKNAAPILHLSGMDVTIVKTDYEGQAKKLELEMENTDVIIVAGGDGTLQEVVTGVLRRTDEATFSKIPIG
FIPLGETSSLSHTLFAESGNKVQHITDATALAIVKGETVPLDVLQIKGEKEQPVFAMTGLRWGSFRDAGVKVSKYW
YLGPLKIKAAHFFSTLKEWPQTHQASISYTGPTERPPNEPEETPVQRPSLYRRILRRLASYWAQPQDALSQEVSP
EVWKDVQLSTIELSITTRNNQLDPTSKEDFLNICIEPDTISKGDFITIGSRKVRNPKLHVEGTECLQASQCTLLI
PEGAGGSFSIDSEYEAMPVEVKLLPRKLQFFCDPRKREQMLTSPTQ

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FIGURE 2439

CGCCTCCCTTCCCCCTCCCCGCCGACAGCGGCCGCTCGGGCCCCGGCTCTCGGTTATAAGATGGCGGCGCTGAG
CGGTGGCGGTGGTGGCGGCGCGGAGCCGGGCCAGGCTCTGTTCAACGGGGACATGGAGCCCGAGGCCGCGCCGG
CGCCGGCGCCGCGGCCCTCTTCGGCTGCGGACCCTGCCATTCCGGAGGAGGTGTGGAATATCAAACAAATGATTAA
GTTGACACAGGAACATATAGAGGCCCTATTGGACAAATTTGGTGGGGAGCATAATCCACCATCAATATATCTGGA
GGCCTATGAAGAATACACCAGCAAGCTAGATGCACTCCAACAAAGAGAACAACAGTTATTGGAATCTCTGGGGAA
CGGAAGTGAATTTTTCTGTTTCTAGCTCTGCATCAATGGATACCGTTACATCTTCTTCCTCTTCTAGCCTTTTCACT
GCTACCTTCATCTCTTTTCACTTTTTTCAAAATCCCACAGATGTGGCACGGAGCAACCCCAAGTCACCACAAAAACC
TATCGTTAGAGTCTTCCTGCCCAACAAACAGAGGACAGTGGTACCTGCAAGGTGTGGAGTTACAGTCCGAGACAG
TCTAAAGAAAGCACTGATGATGAGAGGTCTAATCCCAGAGTGCTGTGCTGTTTACAGAATTCAGGATGGAGAGAA
GAAACCAATTGGTTGGGACACTGATATTTTCTGGCTTACTGGAGAAGAATTGCATGTGGAAGTGTGGAGAATGT
TCCACTTACAACACACAACCTTTGTACGAAAAACGTTTTTACCTTAGCATTTTGTGACTTTTGTGCGAAAGCTGCT
TTTCCAGGGTTTCCGCTGTCAAACATGTGGTTATAAATTTACCAGCGTTGTAGTACAGAAGTTCCACTGATGTG
TGTTAATTATGACCAACTTGATTTGCTGTTTGTCTCCAAGTTCTTTGAACACCACCCAATACCACAGGAAGAGGC
GTCCTTAGCAGAGACTGCCCTAACATCTGGATCATCCCCTTCCGCACCCCGCTCGGACTCTATTGGGCCCCAAAT
TCTCACCAGTCCGCTCTCCTTCAAATCCATTCCAATTCCACAGCCCTTCCGACCAGCAGATGAAGATCATCGAAA
TCAATTTGGGCAACGAGACCGATCCTCATCAGCTCCCAATGTGCATATAAACACAATAGAACCTGTCAATATTGA
TGACTTGATTAGAGACCAAGGATTTCTGTTGATGGAGGATCAACCACAGGTTTGTCTGCTACCCCCCTGCCTC
ATTACCTGGCTCACTAACTAACGTGAAAGCCTTACAGAAATCTCCAGGACCTCAGCGAGAAAGGAAGTCATCTTC
ATCCTCAGAAGACAGGAATCGAATGAAAACACTTGGTAGACGGGACTCGAGTGATGATTGGGAGATTCTGTATGG
GCAGATTACAGTGGGACAAAGAATTGGATCTGGATCATTTTGAACAGTCTACAAGGGAAAGTGGCATGGTGTATGT
GGCAGTGAAAATGTTGAATGTGACAGCACCTACACCTCAGCAGTTACAAGCCTTCAAAAATGAAGTAGGAGTACT
CAGGAAAACACGACATGTGAATATCCTACTCTTCATGGGCTATTCCACAAAGCCACAACCTGGCTATTGTTACCCA
GTGGTGTGAGGGCTCCAGCTTGTATCACCATCTCCATATCATTGAGACCAAAATTTGAGATGATCAAACCTTATAGA
TATTGCACGACAGACTGCACAGGGCATGGATTACTTACACGCCAAGTCAATCATCCACAGAGACCTCAAGAGTAA
TAATATATTTCTTCATGAAGACCTCACAGTAAAAATAGGTGATTTTGGTCTAGCTACAGTGAAATCTCGATGGAG
TGGGTCCCATCAGTTTGAACAGTTGTCTGGATCCATTTTGTGGATGGCACCAGAAAGTCATCAGAATGCAAGATAA
AAATCCATACAGCTTTTCACTCAGATGTATATGCATTTGGAATTGTTCTGTATGAATTGATGACTGGACAGTTACC
TTATTCAAACATCAACAACAGGGACCAGATAATTTTTATGGTGGGACGAGGATACCTGTCTCCAGATCTCAGTAA
GGTACGGAGTAACTGTCCAAAAGCCATGAAGAGATTAATGGCAGAGTGCCTCAAAAAGAAAAGAGATGAGAGACC
ACTCTTTCCCCAAATCTCGCCTCTATTGAGCTGCTGGCCCGCTCATTGCCAAAAATTCACCGCAGTGCATCAGA
ACCCTCCTTGAATCGGGCTGGTTTCCAAACAGAGGATTTTAGTCTATATGCTTGTGCTTCTCCAAAACACCCAT
CCAGGCAGGGGATATGGTGCCTTTCTGTCCACTGAAACAAATGAGTGAGAGAGTTTCCAGGAGAGTAGCAACAAA
AGGAAAATAAATGAACATATGTTTGTCTATATGTTAAATTGAATAAAATACTCTCTTTTTTTTAAAGTG

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FIGURE 2440

GGCACGAGGGTGTCCCTCCCCGCGGCTGGAGGCTGCTCCGGACCGGGACGCAGAGTCTGCGGACCCGGCGCCG
AGGCGGCCACCCGAGACGCGGCGCGCACGCTCCGGCCTGCGCAGCCCGGCCCGGCCATGGCGGCCCGCCCGT
CTCCCGCATCTCCGTTTCGGTCTCGGCTCCGGCTTTTTACGCCCCGCAGAAGAAGTTCGGCCCTGTGGTGGCCC
CAAAGCCCAAAGTGAATCCCTTCCGGCCCCGGGACAGCGAGCCTCCCCGGCACCCGGGGCCAGCGCGCACAGA
TGGGCGGGTGGGCGAGATTCCCCCGCCGCCCGGGAAGACTTTCCCTGCCTCCACCTCCCCTTGCTGGGGATG
GCGACGATGCAGAGGGTGTCTTGGGAGGTGCCTTCCCGCCGCCCTCCCCGATCGAGGAATCATTTCGCCCTG
CGCTCTGGAGGAGGAGATCTTCCCTTCCCGCCGCCCTCCTCCGGAGGAGGAGGGAGGGCCTGAGGCCCCATAC
CGCCCCACCCAGCCAGGGAGAAGGTGAGCAGTATTGATTGGAGATCGACTCTCTGTCTCACTGCTGGATG
ACATGACCAAGAATGATCCTTTCAAAGCCCGGTGTCATCTGGATATGTGCCCCACCAGTGGCCACTCCATTCA
GTTCCAAGTCCAGTACCAAGCCTGCAGCCGGGGGCACAGCACCCCTGCCTCCTTGGAAGTCCCTTCCAGCTCCC
AGCCTCTGCCCCAGGTTCGGCTCCGGCTCAGAGCCAGACAGTTCCATGTTTCCAGCCCCAGCCCCAGCCAAGC
CTCAGGTCCAACCTCCATGTCCAGTCCCAGACCCAGCCTGTGTCTTTGGCTAACACCCAGCCCCAGGGCCCCCAG
CCTCATCTCCGGCTCCAGCCCCAAGTTTTCTCCAGTGACTCCTAAGTTTACTCCTGTGGCTTCCAAGTTCAGTC
CTGGAGCCCCAGGTGGATCTGGGTACAAACCAAAATCAAAAATTGGGGCACCCCGAAGCTCTTTCTGCTGGCACAG
GCTCCCTCAACCTCCCAGCTTACCTATGCCCAGCAGAGGGAGAAGCCCCGAGTGCAGGAGAAGCAGACCCCCG
TGCCCCACCGGCTCAGAACCAAAACCAGGTGCGCTCCCCCTGGGGCCCCAGGGCCCCCTGACTCTGAAGGAGGTGG
AGGAGCTGGAGCAGCTGACCCAGCAGCTAATGCAGGACATGGAGCATCCTCAGAGGCAGAATGTGGCTGTCAACG
AACTCTGCGGCCGATGCCATCAACCCCTGGCCCCGGGCGCAGCCAGCCGTCCGCGCTCTAGGGCAGCTGTTCCACA
TCGCTGTCTTACCTGCCACCAGTGTGCGCAGCAGCTCCAGGGCCAGCAGTTCTACAGTCTGGAGGGGGCGCCGT
ACTGCGAGGGCTGTTACACTGACACCCTGGAGAAGTGTAACACCTGCGGGAGCCCATCACTGACCGCATGCTGA
GGGCCACGGGCAAGGCCTATCACCCGCACTGCTTACCTGTGTGGTCTGCGCCCGCCCCCTGGAGGGCACCTCCT
TCATCGTGGACCAGGCCAACCGGCCCACTGTGTCCCCGACTACCACAAGCAGTACGCCCCGAGGTGCTCCGTCT
GCTCTGAGCCCATCATGCCTGAGCCTGGCCGAGATGAGACTGTGCGAGTGGTCCGCCCTGGACAAGAACTTCCACA
TGAAGTGTTACAAGTGTGAGGACTGCGGGAAGCCCCCTGTCGATTGAGGCAGATGACAATGGCTGCTTCCCCCTGG
ACGGTCACGTGCTCTGTGGAAGTGCCACACTGCTAGAGCCCGAGACCTGAGTGAGGACAGGCCCTCTTCAGACCG
CAGTCCATGCCCCATTGTGGACCACCCACACTGAGACCACCTGCCCCACCTCAGTTATTGTTTTGATGTCTAGC
CCCTCCCATTTCACCCCTCCCTAGCATCCCAGGTGCCCTGACCCAGGACCCAAACATGGTCTAGGGATGCAGGA
TCCCCGCCCTGGGGTCTGGTCTCGCCATCCTGCAGGGATTGCCACCGTCTTCCAGACACCCACCTGAGGGG
GGCACCAGGTTTAGTGCTGCTGCTTTCACTGCTGCACCCGCGCCCTCGGCCGGCCCCCGAGCAGCCTTTGTACT
CTGCTTGCGGAGGGCTGGGAGACCCTCCAGGACATTCCCACCTCCCCCATGCTGCCAAGTTGTAGCTATAGCTA
CAAATAAAAAAAAAACCTTGTTTTCCAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2441

MAAPRPSPAISVSVSAPAFYAPQKKFGPVVAPKPKVNFRRPGDSEPPPPAPGAQRAQMGRVGEIPPPPPEDFPLPP
PPLAGDGDDAEGALGGAFPPPPPIEESFPPAPLEEEIFFSPPPPPEEEGGPEAPIPPPPQPREKVSSIDLEIDS
LSSLLDDMTKNDFKARVSSGYVPPPVATPFSSKSSTKPAAGGTAPLPPWKSPSSSQPLPQVPAPAQSQTQFHVQ
PQPQPKPQVQLHVQSQTQPVSLANTQPRGPPASSPAPAPKFSPVTPKFTPVASKFSPGAPGGSGSQPNQKLGHPE
ALSAGTGSPQPPSFTYAQQREKPRVQEKQHPVPPPAQNQNQVRSPGAPGPLTLKEVEELEQLTQQLMQDMEHPQR
QNVAVNELCGRCHQPLARAQPAVRALGQLFHIACFTCHQCAQQQLQGQQFYSLGAPYCEGCYTDITLEKNTCGEP
ITDRMLRATGKAYHPHCFTCVVCARPLEGTSFIVDQANRPHCVPDYHKQYAPRCSVCSEPIMPEPGRDETVRVVA
LDKNFHMKCYKCEDCGKPLSIEADDNGCFPLDGHVLCRKCHTARAQT

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FIGURE 2442

GGCACGAGGGGCGGCGGAGCCGACTCGTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCAGTCTGGGATTGG
CCGGCCCCGCGACTTCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCGTTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTGCGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACCATGAGGCCCCGAAAGCCTTCCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCCGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGAAGTTAAGGAAGAAAATGGAGTCTTGGTCTCTAAATGATG
CAAACTTTGATAATTTTGTGGCTGACAAAGACACAGTGTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGCTCCGGAATATGAAAAAATTGCCAACATATTAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCACCATCAAGATCCTTAAGA
AGGGGCGAGGCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGAAATTGTTGCCAAGGTCAGAGAAGTCTCCAGC
CCGACTGGACGCTCCACCAGAAGTCACGCTTGTGTTGACCAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAACTTGCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCTCCAATTCCCCCTGGCAAAGGTCGACGCCACCGCAGAAACAGACCTGGCCA
AGAGGTTTGATGTCTCTGGCTATCCACCCCTGAAAATTTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCCTGAAGC
AGGTCCAGGAGTTCTGAAGGATGGAGACGATGTCATCATCATCGGGGTCTTTAAGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACAACTGAGAGAAGATTACAAATTTACACACTTTTACGACAGAAATA
CAAAGTTCTTGAAAGTCTCCAGGGGCGAGTTGGTTGTAATGCAGCCTGAGAAATTCCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACCGCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCTGCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAAGTGAAGCCAGTCATCAAAATCCCAGCCAGTGC
CCAAGAACAACAAGGGACCCGTCAGGTGCTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCCAAGAAGG
ACGTCCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAAGGGCCTGGTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCAGTGGGGACAAAAGAACCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTGAGCAAGTTTATAGAAGAACATGCCACAAAAGTGAAGCAGGACCAAGGAAGAGC
TTTGAAGGCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTTCGGGGCGTCCACGCC
GAGGCCGCAACAAACGACAGTATCTCGGATTCTTTTTTTTTTTTTTTTTTAAATTTTTTATACTTTGGTGTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTAGTCCAGATTTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTTTACACCTTCTAATTTCTTTATTTCTCAAAGCAGATAATTCT
TCTGTGTGAAAATGTTTTCTTTTTTAAATTAAGGTTTAAAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT
GCTTTTTCTGTTGTCTGAGAAATTGTTGGCGTAGATTTGGCTTCTGGTATGTGTTTCTGATTGCTTCCTGTTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTTAAAAA
AAAAA

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FIGURE 2443

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLA SRFDVSGYPTIKILKKGQAVD
YEGSRTQEEIVAKVREVSQPDWTPPEVTLVLTKENFDEVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDYNGPREKYGIVDYMIEQSGPPSKEILTLKQVQEFL
KDGD DVIIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQPEKFSKYEPRSHMMD
VQGSTQDSA IKDFVLKYALPLVGHRKVSND AKRYTRRPLVVVYYSVDFSF DYRAATQFWR SKVLEVAKDFPEYTF
AIAD EEDYAGEVKDLGLSESGEDVNAA ILDESGKKFAMEPEEFDSDLREFVTAFKKGKLPVIKSQPV PKNNKG
PVKVVVGKTFDSIVMDPKKDV LIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVP SDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

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FIGURE 2444A

GCCGCCGAAGGGGACTGTTTGCTCCTACGGGCTGTAGATGGAGCTGTCCGGCCCCGGAGAGGGGGAAGGCGCCTG
GAAAACGTTCTTCTTCTCCCTGGCCGACCCGAGCGGGGAACAGCACTCCCAGGATGCAGTTTGTGTCAACACGGC
CGCAGCCTCAGCAGCTGGGCATCCAGGGCCTGGGGCTGGACAGCGGGAGCTGGAGCTGGGCCCAGGCTCTGCCCC
CGGAGGAGGTCTGCCACCAGGAGCCGGCGCTGCGCGGGGAAATGGCCGAGGGAATGCCGCCCATGCAGGCTCAAG
AATGGGACATGGACGCCCCGGCGGCCAATGCCCTTTTCAGTTCACCCCTTTCCAGATAGGGCACCTGTCTTCCCCG
ACCGCATGATGCGAGAGCCCCAGTTGCCACAGCAGAGATCTCACTCTGGACTGTGGTGGCTGCCATTCAGGCTG
TGGAGAGGAAGGTGGATGCCCAGGCCAGCCAGCTGCTGAACCTGGAGGGGCGCACGGGGACAGCCGAGAAGAAGC
TGGCCGACTGTGAAAAGACGGCCGTGGAATTTGGGAACCACATGGAGAGCAAGTGGGCCGTGCTGGGGACCTGCG
TGCAGGAGTACGGGCTGCTGCGAGAGCGGCTGGAGAACTTGAGAAGTGTGCGCAACAGGAACCTTCTGGGTCC
TGCGGCTGCCCCCGGGCAGCAAGGGGGAGGCCCCCAAGGTTCCAGTGACTTTTGTGACATTGCTGTGTACTTCT
CCGAAGACGAGTGAAGAAGCTTGGACGAATGGCAGAAGGAGCTTTATAACAACCTTGTAAAGGAGAAGTACAAAA
CCCTCATGTCCCTGGACGCGGAGGGCTCAGTCCCCAAGCCAGATGCTCCAGTCCAGGCTGAGCCAGGGAAGAAGC
CTTGTGTGTGGGAGCAGCGCCACCCCGAAGAGAGAGAAATCCCAATGGATCCCGAAGCAGGAGCAGAGCCCCCTGG
TGCCTGCGCAGGATGCGTCTCTCCAGGTGAAGCGTGAGGACACCTGTGTGTCCGGGGTACGCGGGGCTGGAGG
AAAGAGCCATCCCTACGGAATCCATTACCGACTCCCCAATTTCTGCCCAGGACCTCTTGTCCCGGATTAAACAGG
AGGAGCATCAGTGCCTGTGGGATCAGCAGGATTTGGCAGACAGAGATATTCCACGGATCCCAATTCAGAGTCTC
TCATCTCAGCACATGACATTTTGTATGGATCAAGCAGGAGGAGCAGCCATACCCATGGGGACCACGCGACTCAA
TGGACGGAGAGCTTGGATTAGACTCTGGCCCTAGTGACAGCCTGCTGATGGTGAAGAACCACCCCCGGCCCCGC
CACAGCCCCAGCCCCAGCCCCAGCCACCGCAGCCGAGCTGCAGTGCAGCCCCAGCCCCAGAGCCTGCCCCCA
TCGCGGTGGCCGAGAACC CGGGCGGCCCCCGAGCCGAGGGCTGCTGGACGACGTTTCCAGGTGCTGCCCCGGG
AGCGTGGCTCCGGCGAGGCGCCGCGGGTGGGGACCGCAGCACCGGGGGCGGCGGGGGCGATGGGGGCGGTGGGG
GCGGCGGCGCGGAGGCGGGGACGGGGCAGGCGGCGGCTGTGGCAGCTGCTGCCCTGGCGGGCTGCGGCGGAGCC
TCCTCCTGCACGGCGCCCGCAGCAAGCCCTACTCGTGCCCCGAGTGCAGGCAAGAGCTTCGGCGTGCAGCAAGAGCC
TCATCATCCACCACCGCAGCCACACCAAGGAGCGGCCCTACGAGTGCCTGAGTGCAGAGAAGAGCTTCAACTGCC
ACTCGGGCCTCATCCGCCACCAGATGACGACCGCGGCGAGCGGCCCTACAAGTGCTCGGAGTGCAGAGAAGACCT
ACAGCCGTAAGGAGCACCTGCAGAACCACAGCGGCTGCACACGGGCGAGCGGCCTTTCCAATGTGCACTGTGCG
GCAAGAGCTTCATCCGCAAGCAGAACCTGCTCAAGCACCAGCGCATCCACACGGGCGAGCGCCCTACACGTGCG
GCGAGTGCAGGCAAGAGCTTCCGCTACAAGGAGTGCCTCAAGGACCACCTGCGCGTGCACAGCGGCGGCCCCGGGCC
CCGGCGCCCCACGGCAGCTCCCGCCGCTCCTGAGCGAGACTAGGGCTGGGCTGGGGGAGGGCAGGGCCGGACGG
AGTGGATCGGGGGCGGCCTGAGCACCAACCACCTTGCCGGGTGTCTCAGCCACCGTCTGGAAATCGGCAACAGG
CATTGCACTCCGGTTGGGGGTCCCCAGGGTGGGGCAGGGATCCCCAGATCTGTCTGGTCTGAATGGACGCCCCAG
CTCATCTAGGGTGGACCCAGCTGCTGGGGAAGAGCCAGGGGGACCGCGAGGAGCCGAGCGTCTCGGGACCGCC
CTCACACCTCCTCGAGTGCCCTGGGACCACTGGGCCACAGATGGTCATCAGGGGAAGCCACCAGGGAGTCCCCGAA
GCCCTTCTGAGATCAGGAAATCAGGTCCCAAGGTTAGGAGACGCCCTGAAAAAAGCGAAGGCCGAGGGATGTGC
TAAGGGTAACACCTTCATGATGACAACACTGCCTCGCGTTTCAATAGCGCTTTATACTTTTTTAAGTGTCTTCTA
TCCGTTATCCATTTACCCCTTGGCCTATCCCTCTCAGATAGGTGGGGTAGGATTTTCTGGTGACCGAGTAAAGT
GAGAGGCAGGTGAGACGGTTCACCCAATCACACGGGAAGGGGCGCGCGCTGCCCAACCGCGCTCTCCGCTACCT
CCGCTGCTCGGGAAGCTGCTGGCCTGGCCCTCCTGGTCTCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
TCACCCACGGATAAAACCAGAAGCGACAGGAGGCCAGCTCCTGGGGTTTCTGGGAGCCGGGAACAGATTGGCTAC
GGAACGCCCCAGGTTGTACATTAGAGGGCTCTTTCTCCATGGGAGCTCCTGGTGCCGCTCGGCCCCAGCCTGT
CCCCAGCCCCCTCAATCTGGTGCAGCAGCATCTTGTCACTGCACAACAGTGGCTGGTCCCCACAGGCAGTTAGG
GCCCCAGGTACAGCCTACCATGATGATTTGTTCCAGTTCTCCAGGGCAGAGGGGCGAGGGAGAGGCTTTTGTCT
GTGAGAGTAGCCGTACGTTGTCTTCTTCCAGCAGCGCCGGGCAAGTGGGTGCTAGAGTCTGAGCCTCAGGCTCTC
CTGCCCTGGGCTCCCAATTGGTGCTATCTGTTACTGCCCGTGTCTACGGACATGGATACAGACCCTGCTGTGCT
CCACACCCTGCAGGCGCCTCGGGAAGCGCCCAAAGGATTCCCTTACGTTGGTGCACCTGCTCCATAGCTCCGG
GCGCTGCGTCCCGAGGGGGCCACAGTCTCCATTTAGCGTCTTGCATGGCCTGGCACCGGGTGGGGTGGTATGCC
CAGGACCCTTGTGTGTCAAAAATGACTTTCCCTGCCCTTGGCGTGGGTCCGGCGTTCTCCAGCCGGGATCA
CAGTGGGCAGCCGGCACCCGGCACCACTTTGGCGAGCGTCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCG

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FIGURE 2444B

CTTTCCTCAGACCCCTTTTGGCCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGC
ATGTTACAGAGCTGGGGGTCTCCAGCTTGCCTACAGTAAAGCCTCAATGAACTGG

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FIGURE 2445

MQFVSTRPQPQQLGIQGLGLDSGSWSWAQALPPEEVCHQEPALRGEMAEGMPPMQAQEWMDARRPMPFQFPPFP
DRAPVFPDRMMREPQLPTAEISLWTVVAIQAVERKVDAQASQLLNLEGRGTAEKKLADCEKTAVEFGNHMESK
WAVLGTLLQEYGLLQRRLENLENLLRNRNFWVLRLPPGSKGEAPKVPVTFVDIAVYFSEDEWKNLDEWQKELYNN
LVKENYKTLMSLDAEGSVKPDAPVQAEPREPCVWEQRHPEEREIPMDPEAGAEPLVPAQDASSQVKREDTLCV
RGQRGLEERAIPTESITDSPISAQDLLSRIKQEEHQCVWDQQDLADRDIPDTPNSESLSAHDILSWIKQEEQPY
PWGPRDSMDGELGLDSGPSDSLMLVKNPPPPAPPQPQPQPQPQPQQLQSQPQPQSLPPIAVAENPGGPPSRGLLDD
GFQVLPGERGSGEAPPGGDRSTGGGGGDGGGGGGGAEAGTGAGGGCGSCCPGGLRRSLLLHGARSKPYSCPECCK
SFGVRKSLI IHRSHTKERPYECAECEKSFNCHSGLIRHQMTHRGERPYKCSECEKTYSRKEHLQNHQRLHTGER
PFQCALCGKSFIRKQNLKQRIHTGERPYTCGECGKSFYKESLKDHLRVHSGGPGPGAPRQLPPPPPERD

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FIGURE 2446

TCTTGTCCCGGATTAAACAGGAGGAGCATCAGTGC GTGTGGGATCAGCAGGATTTGGCAGACAGAGATATTCCCA
CGGATCCCTCGGGAAGCGCCCAAAGGATTCCCCTTACGTTGGTGCACCTGCTCCATAGCTCCGGGCGCTGCGTC
CCGAGGGGCCACAGTCTCCATTTACGCGTCTTG CATGGCCTGGCACC GGGTGGGTGGTATGCCCCAGGACCCTT
GTTTGTGTCAAAAATGACTTTCCCTGCCCTTGCCGTGGGTCCGGCGTTCCCTCCCAGCCGGGATCACAGTGGGCAG
CCGGCACCCGGCACC ACTTTGGCGAGCGTCTGCTTCCGCCCTCGCCCTCATCTACGCTGCTCCGCTTTCCTCAG
ACCCCTTTTGGCGTGCAAAGGGAATTCTTGACATTAAATAAAAGGTATCCAGATTGCAGACTGCATGTTACAG
AGCTGGGGGTTCTCCAGCTTGCTACAGTAAAGCCTCAATGAACTGG

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FIGURE 2447

AGTGCCTGCGCTTCTTCCAGCAGCGCAAGAGCCTGCTGCTGCACCAGCGCCTGCACACCGGCAATGCGCCAGGGCT
GGCCCCGCTGCCCCCTACTGCGGCAAGGCCTTCCGCCGGCCCTCGGACCTCTTCCGGCACCAGCGCATCCACACCG
GTGAGCGGGCCCTACCAGTGCCCCAGTGTGGCCGGACCTTCAACCGCAACCACCACCTGGCCGTGCACATGCAGA
CCCACGCCCGAGGGCCAGGTGGGCCACACTTCCCTGCGCCCCCGCCGCCACGGGAGCCTGCCCCCTGCCCTGGC
CCAGCCGGAAGGAGGAGGGCTGACCTGGCAGGAGCCACAGAGGACCCCTGGCGGGGTCTCTCCCTGTGCCTGA

CGCAGGTTCTTCCTTTTCTGGGATGGAGAGAGGTTTGTGTTTTTACCCATTCAAATGGGAAGCTAGCTGCCCT
TCTGGTGACATTGTGTGTGACCGGTGCTTTCTGTTTCTGTGTTGCACTCTTCGCTGCCTTTTCTGCATTCTCTGA
CTTCTAAAAGATGCCTTAAGGCTTAAGGGATGCCATATTTTTGATAAGGCCTCTGGTAGGTACCACAGCCAAGAG
GACCAGAGATCATGGCCCTTCCAGTATGGGGCGATAGAGACATCGGGGACCTGGGATTTTTGTTTTGTGCAGAG
ATCTCCTGCCTGCTGTACCATGAGAAACAGTGGAGTGGAGTGGATGGATGGCCTGACTTGAAGAAAGGGCCCTG
GAAAGTTTTCTACTTTGCTATTTTGAAATTTTTTCCCTTCTTATAGAGACTTTGAAATACTTTGTAAATGTGT
GTAGTTGTTAATGGAACTTGCCTTTTGCAAAGTCGGAAAGAGTCGGCTTTTCCATGTGAGGCTCGCAGAGCTGA
AAGGGGAGCTACGTCCACCAGCCTGTGGGTCTTTTGGTTTTTTTTTTTGTGTTGTTGTTGTTTTTTAAGATGGA
GTTTCACTCTTGTGCCCAGGCTGGAGTGCAATGGTACAATCTCCGCTCACTGCAACCTCCGCTCTCGGGTTCA
GGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCACCACCCTCCCGCTAATTTTTGTGA
TTTTTAGTAGAGACAGGGTTTCATCATGTTGTCCAGACTGGTCTCGAACTCCTGATGTTAGGTGACCCGCACACC
TCGGCCTCCTGAAGTGCTGGGATTACAGGCGTGAGCCACCCTCTTGGCCAGCCTGTGGGTTTTGATGGGGATG
TCTTGGCTGCTGTCTTGGAGGCACAGTGTCTCCCCATGTGTGTCTTCTTGGCCAGAGTGACTCCCAGTATTCC
TAGTCTTCCCCACAGGATAGTCACATCCATTATTTACTTTTGTGTGCTGAGTGGGAGGGGAAACTGAAGCCTGGA
CACGTCTCCCCAAGGGCTCAGTGTTTCATGGGTGTGTAAGATCCATTGACTGGACCCAGAAAGCACCCCTGAGGGG
CAGTGACAGAGAGAGCCAGGAAGCCCTCCACTAGAGGAGGCCCTTGGTCTGGCTGAGGACCACGTCCACCCTGG
GCCTCCAGGCCTGCTTTTACATTAAAGGCGGGGAGTCTCCTCTCAAAGGAGTTCTCCCTTGAGCACTTTGGGC
TCTGGGGCAGAGTTGGGCTAGGAGATCTGGGTGAATCCTTTAGTCACAGCTAGTCTCATGTTCTCTTCTGTCAA
AGGGGTCTAGGCCCCAGTGTGTCCTACCTCAGAGTTGTGAGGGTCAAAGTAACAGGCACTGGGACAAATATGAAG
CCTAGCTTTGTGCTTCCTTTCAAATTCAGGGCCTCCTTTCTACTCCATTCCAGCCTTTTTTCTCTGTGAGAATCC
CTCAGGAAGGACCTTTATCTTCTGGAGTGAGTGGCAGTTCCACTGGGTTCACTGAAAGAGTCGCCCATGGGGCTC
TGTTCCCCAGGAGTCCTTTGTATTTTGGTGAACAAATCTTACCAAAGCATGAGATTCCGACTGTAGAAGTTTCAG
ACTGCCCTCAGTTCAGACTGCCTCATGGGGCAGTCTGGAGGTCAGCTGGCTTCTGGTGTCTCTCATCACACCACTG
CGGACGCTGTCTGTAGAGCAGCCTTGGTGTGGGTGACTCTGAAGCTGGAGTGATGGGACCCCACTATCCTTGT
TTTTACCGCCTTGTCTGGCACTGTGACCACGCTTCAGGGCTGCTTCTGGGGGTCTTGGTCCCTGGATGTGCCATT
TCCTTGCCCTTCTGACCCTCACACTTCTTCAAAGTCTTGAGCAGAGTTGGGGGCCAATGGTAGCATTGCTGTCA
TCTCTGGGAGGAGAGTGAGTATACAAGTCAGTGACAGTTCAGCCAGGCTCCCTTGGGTTTGGGAAGAGGCACTGC
CCTTCTGTGCTGTGGATCCTGTCTGTCTGTCTGGAGTCCCCCACCCCTTGCCAGGAGCTTCACAAACCAGAGAC
GGGCTGTCAGCAAGAGCTCAGACAGGATGTGGTGCAAGTGCAGGTGCACGAGTTTAACCCTCAGCTGCAGGAGCT
AGTCTCAGGTGTTCTGGGGATGCCTCAGGCTAAGAATTTTGCCGACTTCTGCGGCTTGGTTGGCTAATGCCAAAT
GCCCCGTGCTTAAATATCACAAGGTGCTGATTCTCCTTTTTTCTTTTTTTCATACCAATGTGCTCAAACCTTTGAGC
TAGGTCTTGTGAGTTTGCCTAGCACTCAGACCTGTTTAAGTAACGTTCTTACATTGAAACAAGTCAACCGAAGC
TTTGTGGTGCAGGAGCTGAGGGTGCCCCAGACTCAGTGGGAGCCCTGGTTGGGGCCCCAACTCTCCAGCAGGGT
CCTCGGTTTCTCATTGTGAAATAAATGAGTGGGCCACGACGTTAATAAGCCCAAGAGAACTGTGAAGGTGGTA
GTCCCTTGCCCTAATTGGTGCTCAATAAAGTTGTTGGCAT

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FIGURE 2448

MARAGPPAPTAARPSAGPRTSSGTSASTPVSGPVSAPSVAGPSTATTWPCTCRPTPEARWAHTSLPPPPATGAC
PCPGPAGRRRADLAGAHRGPLAGSLPCA

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FIGURE 2449

GCACGAGGCCAGCTTGGCCAGTGGCTCCGCAGGCTGCCGGCTCCACCCCTCAGGGACTGGCTGGCTTCGAGCAGG
GCATCGGAACCAGGCCTCCTGGCACTGGCCTGGGTAGAGCCAGGGCGAGCACCAGCTGACCCCACTGGAAACCCT
GTGACAGTCCTGCCAGGGCCCCAGGCCATCCCAACCGACTTCCATCTCATGGACCCTCCAGCGGAGAAGCCGGGAG
AGGCTGGCGGACTGCAGATCACACCCCACTGCTGAAGTCACGCACAGGCGAGTTCTCCCTGGAGTCCATCCTGC
TACTGAAGCTGCGTGGCTTGGGACTGGCTGACCTGGGCTGCCTGGGAGAGTGCCTGGGCTGGAGTGGCTGGACC
TATCAGGCAACGCGCTCACCCACCTGGGCCCGCTGGCCTCCTTGCGCCAGCTAGCTGTGCTCAATGTCTCCAACA
ATCGGCTGACGGGCTGGAGCCACTGGCCACCTGTGAGAACTTGAGAGTCTCAATGCCGCAGGCAACCTACTGG
CCACCCCGGGCCAGCTGCAGTGTCTGGCTGGGCTACCGTGCCTGGAGTACCTGCGGCTCCGAGACCCTTTGGCCC
GGCTCAGCAACCCGCTCTGTGCCAACCCCTCCTACTGGGCTGCAGTCCGGGAGCTGCTGCCTGGCCTGAAAGTCA
TCGACGGTGAGCGTGTGATTGGGCGTGGTAGTGAGTTCTACCAGCTGTGCCGAGACCTGGACAGCTCCTTGCGTC
CCAGCTCCAGTCCAGGCCCCAGAGCCACCGAGGCCAGCCCTGGGTGGAGCCAGGCTACTGGGAGTCCCTGGCCCA
GCCGGAGCAGCTCCATCCTGGAGGAGGCTGCCGGCAGTTCCAGGACACACTGCAGGAGTGTGGGACCTGGACC
GCCAGGCCAGCGACAGCCTGGCCCAGGCGGAGCAGGTACTCAGCTCTGCGGGCCCCACCTCTTCCTTCGTCTTCT
GAACGTGGCCTATGGCCCAGGACAGCCTGGCAGGTGGCCTCGCTGCCCCCAGTTCCCTCTCTGCCCCACACTC
GTCTTAGTTGCTTCACACTGGTCACTGGCCCTGCACACTGGGCTATTGCTTTATCCCTATCCTGAGAGCAGCCCC
TCCCCACCATCCCTCCACATGCTGCAAGGACAGACTGAAGGGCTGTGAGCAGGTGTAAGGGCTCCACATCCGTG
AGCCTGTGTCCGCAGCTGCTGCCACTCTGGGCTGCTCCAGCCTGCAACTTAGTGGAAGGAATTACTTCCTCCTGA
GGCTACAGGCGAGAAAGGTAGGGATGGGCCAGCCTCCCGTCTCAGCTGTTGGGAGACAGTAGGCAGGCTGAGTGG
CCCAGAGCACTCCTGGAAGTGGGACTCCCCTGCCTTGCAAATGTGCCTCTCCAGACTGCTCCTGCACTTACCCCC
TCCCCGCAGCACCTTCTCTGCCCCTTCTTGTCACACATCTATTAAATGCTTCTGTTTTCAAAAAAAAAAAAAA
AAAAA

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FIGURE 2450

MDPPAEKPGGEAGGLQITPQLLKSRGTGEFSLESILLKLRGLGLADLGCLGECLGLEWLDLSGNALTHLGPLASLR
QLAVLNVSNNRLTGLEPLATCENLQSLNAAGNLLATPGQLQCLAGLPCLEYLRRLRDPLARLSNPLCANPSYWAAV
RELLPGLKVIDGERVIGRGSEFYQLCRDLDDSSLRPSSSPGPRATEAQPWVEPGYWESWPSRSSSILEEACRQFQD
TLQECWDLDRQASDSLAAEQVLSSAGPTSSSFVF

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FIGURE 2451

GGCAGGCACCAGCTGGGGAAGGCTGGTGTTCGCTTGTTCGGCCACATTCTGGAGCCCCGGCAGACAGCCTCAGCAAG
CTCCTGTAGCCCTTCCAGATGGTGGTCCGCGAGGCGAGTGCGGCACAGGCCTCTCTGAGCCAGGTGCTGCCCCAG
CTGCGCTACCTGCACATCTTCCTGGAGCAGGTTACACACACTTTTCAGGAGCAGAGTGTGCGGGAGAGGGGCGCA
GCCATCCAGCTGGCTGAGGGGTGGGCCGGCAGCTCTGCACCGACTGTCTAGCTCAACAAGCTCTTCTACCGCGAG
GAGTTTGTGCTGGCCACCTTGCTGGACCTTGCTTCAAGGGGAAGATTGAGGCCATCTGCCATGGGGGCGGACC
GACATTGACCACTGGAAGCAAGTCTCTGTGTACAAGGTGAAGGAGATTAGAGTGTCTGAATACTCTTTGAACTCC
CCAAGTCCCCTGCAAAGCCCCAGGGGTCTGTGCGTGGACCCACCAGGGTAGCCAAGAGCTCCGGGGTGGAGGGG
AGAAGCCAGGGGAGCCTCTGCAGAGCAGCAGCCACTCTGGGGCCTTCCTGCTGGCCCAGAGGGAGAAGGGCTTG
CTGGAGAGCATGGGGCTGCTGGCCTCTGAGAGAAGCGGGGGCTCGCTGTCCACCAAGAGCCACTGGGCCAGCATC
ATTGTCAAGAAGTATCTGTGGGAGAATGAGACCGTTGGAGCCCAGGATGACCCCCCTGGCTTACTGGGAGAAGAAG
CGAGAAGCCTGGCCACCATCTATCTGTCTTACCCCCACAGGAGCCTTCTCTGAAAGCATCTTTGCCCTCCCTGAA
CAGCCCCACCCTTGTAGAGCAAACTCTTCTCTCAAGGTGGAAGCCATTGAGCATCTCCTCTTCTTGAAGGCCAA
CCTGGAGCAGTTCCCCAACTACACCCCGCCTCCCTCATCTGCTCTAGTGGTGACCTGGCCAAGGGGATACAGAC
CCTGCAGTCCGCTCAGGGTGGGATGGCAGACATGGCAGGTGCCGGTGTCTACCCCTGCCCCGTAAGTCTTAGAGAG
CCCCTGCCTGTAATAGGTCAAAGCAGAGAGCTGGGTGTGTCATCCTGGGCGCCACATGCTCATGGCCAGAATCTT
AAACCTATTTGGTAGGAAAGGGTCAGTTTCTCACTTGACAGATTGCCATATTTTTTTTTTCTGGGAGATGTCATTT
TCCATCTCCCGATTACTTCTTTACGTCTAGCAGTATGTGCCGAGAAGAGGCTTACTCTCTTCGTAGGTGACTGT
GAATTTTGTACTACGTGGCTTTGTACATGTGATGCTCTGTTAAACATAAGTGGGTATGAAGGTCTTGCATACA
CCTTGTCTGTGTGGATAAGTGGACACATGCCCTTAAGAGGCTTGCTTTCTCAAAAAGTGGCCAAGGATGTGGAGT
GGGCATGTGCTGGCAGGTGGGATATGTCTCAGCCTTTGGGGGCTGGATAAGCTATTGCAGCACTTTCTGAGGC
TTTCACTGTAGGGAGAAGGAAACCCCAAGGGTAGAATAGCCATTTCCAGAGGGAAGTACACACATACCCCCACAC
ACCAGTCTTTTTGGGGGTTTCAGAGTGGCCGGAGAAACCGACTGAAGGGACTGACCAGCTAGCTAGGAGAGCTGA
GACGCCAGTCTCAAATGGCGTTCTTACCAATAGTCTATTTCCAGACTACTGGAAACGTTGGGGTTCTTCTCTCC
AGTGACAGCAGCCTCAGTAGCTTTCTTGGGCTCCAGGCGGCTGGCTGCACACCCTGCCTGCCATCACCCCTTGCCC
CTGCTTGTCTGGACCACTTTTAAAGGGGAAGTCCCTTATTTGGAAGAGAGAAAGGATGTGTGTAGCACACACTC
ATCATGGATTGCTCAGAGTTCTTTAGGGCAGAGCTGAGGGCTGGGATCCAGGAACAGTGGGATTGGATGGGA
GAAGAAGGAAGGGGGTGGCCCGTACCCCCGCAAGACTTGTCATCCAGGTAGCCTAAGGACTCCTGGTCACTGGGT
AGGGTGGCTGCTGAGATGCAGGTCCGAAGAGGCAGGGGAAGGCTCCAGGCCTAAGTGGAGCATGTCACTGGCCA
TGGGGGTGAGGGGACAGACTCTGCTCTCACTGGCTGGCAGCCCCAGGAGCCTGTTCCCTTGCCCTCTCTGGATGG
GTTGTGACCCCTGTGTTTCACTGTGACCAATTCATTATAACATTTGGATATTACTGAAAATGTAAGGAAGCAGGA
AAAATTAACACTTTTCACTCAGAGATAGCCTCTATCAATAGTTTGACATTTTTCCCTCTTTTACATTGAGATCAT
ACCCTAGGTACTGTTTAGTATGCAATATTTTCATTTTCGCAGTATAATAATTGCACCTGTTAAATAAAGTTTTGT
AAACATTTAAAAA

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FIGURE 2452

MVREASAAQASLSQVLPQLRYLHIFLEQVHTHFQEQSVGERGAAIQLAEGLARQLCTDCQLNKLIFYREEFVLAT
LLDPCFKGKIEAILPWGPTDIDHWKQVLVYKVKEIRVSEYSLNSPSPSQPRGLCVDPTRVAKSSGVEGRSQGEP
LQSSSHSGAFLLAQREKGLLESMGLLASERSGGSLSTKSHWASIIVKKYLWENETVGAQDDPLAYWEKKREAWPP
SICLTPHRSL

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FIGURE 2453

CTTGAAATGTTATCTAAAAACCCAAGATTGAAATAATACATACCACACAAGGAAACAGGAGAGTAGTCTAGCTCC
ATGTCCGGGGCTCTAGGGGTTTCATAGATGGCAGCTCCTGTCCGGGGCTGAGGTTGGGAGGGGAGAAACAGGGGCA
GAGTGAGTTGGTCTCTGGAGTGACTGTGCTTTTCCACCCTCAGCAGAGGAAGAACCAGATGCTGGAACGTCGTTGC
AGGGGGCCCCCTGGCCATGGGCCTGGCCAGCCCCGACTCCTTTCTGGGCCCTCCCAGGAGTCACCCAGACCCTG
GGGAAGGAGTCCCGCGGGCTGAGGCAACAAGGCACGTCACTGGCCAGTCTGGTGCCCAAGCCCCAGGCAGGGCC
CATCGCTGTGCCCCACTGTGCAAGGCACTTCCCTGGCTGGGTGGCTCTGTGGCTTCACACCCGCCGGTGCCAGGCC
CGGCTGCCCTTGCCCTGCCCTGAGTGTGGCCGTCGCTTTCCGCATGCCCTTCTTAGCACTGCACCGCCAGGTC
CATGCTGCTGCCACCCAGACCTGGGCTTTGCTGCCACCTCTGTGGGCAGAGCTTCCGAGGCTGGGTGGCCCTG
GTTCTGCATCTGCGGGCCCATTCAGCTGCAAAGCGGCCCATCGCTTGTCCAAATGCGAGAGACGCTTCTGGCGA
CGAAAGCAGCTTCGAGCTCATCTGCGGCGGTGCCACCCTCCCGCCCCGAGGGCCCGGCCCTTCATATGCGGCAAC
TGTGGCCGGAGCTTTGCCCAGTGGGACCAGCTAGTTGCCCAACAAGCGGGTGCACGTAGCTGAGGCCCTGGAGGAG
GCCGCAGCCAAGGCTCTGGGGCCCCGGCCAGGGGCCGCCCGCGGTGACCGCCCCCGGCCCGGTGGAGATGCC
GTCGACCGCCCCCTTCAGTGTGCTGTTGTGGCAAGCGCTTCCGGCACAAGCCCAACTTGATCGCTCACCGCCGC
GTGCACACGGGCGAGCGGCCACCAGTGCCCCGAGTGCGGGAAGCGCTTTACCAATAAGCCCTATCTGACTTCG
CACCGGCGCATCCACACCGGCGAGAAGCCCTACCCGTGCAAAGAGTGCGGCCGCCGCTTCCGGCACAACCCCAAC
CTGCTGTCTCACAGCAAGATTACAAGCGATCCGAGGGGTCGGCCAGGCCGCCCGGCCCGGGAGCCCCCAG
CTGCCAGCCGGCCCCCAGGAGTCCGCGGCCGAGCCACCCCGCGGTACCTCTGAAACCGGCCAGGAGCCGCCG
CCAGGGGGCCCCGCCAGAGCACCCGCAGGACCCGATCGAAGCCCCCCCCCTCCCTCTACAGCTGCGACGACTGCGGC
AGGAGCTTCCGGCTGGAGCGCTTCTGCGGGCCACCAGCGGCAGCACACCGGGGAGCGGCCCTTCACCTGCGCC
GAGTGCGGGAAGAAGTTTCGGAAGAAGACGCACCTGGTGGCGCACTCGCGCGTGCCTCCGGCGAGCGGCCCTTC
GCCTGCGAGGAGTGCGGCCGCCGCTTCTCCAGGGCAGCCATCTGGCGGCGCATCGGCGCGACACGCCCCCGAT
CGGCCCTTCGTGTGTCCGACTGCGGCAAGGCCTTCCGCCACAAACCCTACCTGGCGGCGCACCGGCGCATCCAC
ACCGGCGAGAAGCCCTACGTCTGCCCCGACTGCGGCAAGCCCTCAGCCAGAAGTCCAACCTGGTGTGCGACCCGG
CGCATCCACACGGGCGAGCGGCCCTACGCCTGTCCCGACTGCGACCGCAGCTTCAGCCAGAAGTCCAACCTCATC
ACCCACCGCAAGAGCCACATCCGGGACGGCGCCTTCTGCTGTGCCATCTGTGGCCAGACCTTCGACGACGAGGAG
AGACTCCTGGCCCACCAGAAGAAGCACGATGTCTGAGACGGTGGGCGGGGCCGTGTTGGCTGAGAGAGGGCTGGG
GTCTTTCGTGGTGGGAGTCGCACTGGGCTGGGGGTGCCTGCCTAGTGCTGGAGTAGGGGACAATGGGAATCCTAG
AGGGGATGGAAGACGCGGGGAGTGAGCTGGGTGGGCCCTGCTAGCGAGAGAGGTCAACCCCGGTGGCCAGGGAAC
CCACTTCCAAGCGCAGGGACGCCGGCCTCCAGCTGGTGTGTGCTAAGGCTCCGTCCTGACTGCCCTGTGCCCTGG
AAAAGCAGCAATAGCATCCGCCCCCTTAGAGCCCTCTGGCTAGAGGAGCCACCAGTGGAAAGGAAGACCCCTCCATC
CTCTGGTATTAACGCCTTAATGCCCCCTGTCTTTTACTGTAAGTTACTTAAGATCATTITTTGGAAGCAGGCGTGGT
AGAGTCTGTAAATGAATGCTCTGGGCTAGATACAGCTTGGAGAACCCTGCTGGCCTTGTTAGACAGCACTTGGGC
CTTTGCCAGCAGCAAGAGGTGAAGCGAAGCCACTCTTACCTCTCCCTTCCCCTCCCACCTGCCCCCTGCGTAGGC
ACCCAGACTTGGAGAGACCCGTCTGCTGTTAATACTTCCATCCTCTTCCCTTCCCAAGAGCAGATCCCAAGGCAT
TTACTCCTTGGTCTGTCTCGCTTTATCTGTGCCCCCTCCAGCGCTGAGAGCCTCCCCTGGCTGTACGAGCACT
GTGTCCAGGCTCTTGTCTGAACACCGCAGCCCCCTCCTTCGCTCCTTCCAGAGCTCAGCATGTACGGCAAGGACT
GCCGCATTGGTGATGGAGGGCCAGCTGAGGGGAAGTTGCTGGTGAGTTTCTTCTCCATTTCTAGCATATGGA
CACCTGGCCTCTGCTTGAGCACTTAGGTGACAGGAACCTCCGCACCTCCTGAGGCCCTGGATGATTCTAATTGTT
AGAAATTCTAATTGTTAGAAATCCTTCTTATAATGAATGAATTCTGCTTTCCTATAATTTCTACCTATTGGGCC
TTGTTCTGTTCTCTGGAACATAACAGAACACCATTTACCCCTCCTTTTCAAAGTAGAGAATAAAGATTGTTT
TAG

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FIGURE 2454A

GGGGAGCCGGGAGCCGAGCGAGGACCCGGCGCCCGCAGTCCAGTCTTGGCCGCGCCCGTGCTCGGCTTGCCGCG
GGGTGCGGGGACCACGGCCCGGGCCGCCACCCGAAGCCTAGTGCTGGGCCGGGCGGGGCGGGGTGGGTGGGGG
CCCCCCCCGGCCCGCCATGGGCTCAGGATGCCGGTGCGGAGGGGCCACGTGCGCGCCGAGAACACCTTCCTGGAC
ACCATCATCCGCAAGTTTGGAGGCCAGAGCCGTAAGTTCATCATCGCCAACGCTCGGGTGGAGAACTGCGCCGTC
ATCTACTGCAACGACGGCTTCTGCGAGCTGTGCGGCTACTCGCGGGCCGAGGTGATGCAGCGACCTGCACCTGC
GACTTCCTGCACGGGCGCGCACGCAGCGCCGCGCTGCCGCGCAGATCGCGCAGGCACTGCTGGGCGCCGAGGAG
CGCAAAGTGAAATCGCCTTCTACCGAAAGATGGGAGCTGCTTCCTATGTCTGGTGGATGTGGTGCCCGTGAAG
AACGAGGATGGGGCTGTTCATCATGTTTCATCTCAATTTGAGGTGGTGTGAGAGAAGGACATGGTGGGGTCCCCG
GCTCATGACACCAACCACCGGGGCCCCCCCCACCAGCTGGCTGGCCCCAGGCCGCGCCAAGACCTTCGCGCTGAAG
CTGCCCCGCGCTGCTGGCGCTGACGGCCCGGAGTCGTGGTGCGGTGCGGCGCGCGGGCGGGCGGGCGCCCCG
GGGGCCGTGGTGGTGGACGTGGACCTGACGCCCCGCGGCACCCAGCAGCGAGTCGCTGGCCCTGGACGAAGTGACA
GCCATGGACAACCACGTGGCAGGGCTCGGGCCCCGCGGAGGAGCGGCGTGCCTGGTGGGTCCCGGCTCTCCGCCC
CGCAGCGCGCCCCGGCCAGCTCCCATCGCCCCGGGCGCACAGCCTCAACCCCGACGCCTCGGGCTCCAGCTGCAGC
CTGGCCCCGACGCGCTCCCCGAGAAAGCTGCGCCAGCGTGCGCCGCGCCTCGTCCGCCGACGACATCGAGGCCATG
CGCGCCGGGGTGCTGCCCCCGCCACCGCGCCACGCCAGCACCGGGGCCATGCACCCACTGCGCAGCGGCTTGCTC
AACTCCACCTCGGACTCCGACCTCGTGCGCTACCGCACCATTAGCAAGATTCCCCAAATCACCTCAACTTTGTG
GACCTCAAGGGCGACCCCTTCTTGGCTTCGCCCCACAGTGACCGTGAGATCATAGCACCTAAGATAAAGGAGCGA
ACCCACAATGTCACTGAGAAGGTACCCAGGTCTGTCCCTGGGCGCCGACGTGCTGCCTGAGTACAAGCTGCAG
GCACCGCGCATCCACCGCTGGACCATCCTGCATTACAGCCCCCTCAAGGCCGTGTGGGACTGGCTCATCTGCTG
CTGGTCATCTACACGGCTGTCTTACACCCCTACTCGGCTGCCTTCCTGCTGAAGGAGACGGAAGAAGGCCCGCT
GCTACCGAGTGTGGCTACGCTGCCAGCCGCTGGCTGTGGTGGACCTCATCGTGGACATCATGTTTCATTGTGGAC
ATCCTCATCAACTTCCGACACCTACGTCAATGCCAACGAGGAGGTGGTCAGCCACCCCGGCCGCATCGCCGTC
CACTACTTCAAGGGCTGGTTCTCATCGACATGGTGGCCGCCATCCCCCTCGACCTGCTCATCTTCGGCTCTGGC
TCTGAGGAGCTGATCGGGCTGCTGAAGACTGCGCGGCTGCTGCGGCTGGTGCGCGTGGCGCGGAAGCTGGATCGC
TACTCAGAGTACGGCGCGGCCGTGCTGTTCTTGCTCATGTGCACCTTTGCGCTCATCGCGCACTGGCTAGCCTGC
ATCTGGTACGCCATCGGCAACATGGAGCAGCCACACATGGACTCACGCATCGGCTGGCTGCACAACCTGGGCGAC
CAGATAGGCAAAACCCTACAACAGCAGCGGCCCTGGGCGGCCCTCCATCAAGGACAAGTATGTGACGGCGCTCTAC
TTCACCTTCAGCAGCCTCACAGTGTGGGCTTCGGCAACGTCTCTCCCAACACCAACTCAGAGAAGATCTTCTCC
ATCTGCGTCACTGCTATTGGCTCCCTCATGTATGCTAGCATCTTCGGCAACGTGTGCGGCTCATCCAGCGGCTG
TACTCGGGCACAGCCCGCTACCACACACAGATGCTGCGGGTGGCGGAGTTTCATCCGCTTCCACCAGATCCCCAAT
CCCCTGCGCCAGCGCCTCGAGGAGTACTTCAGCACGCCTGGTCTACACCAACGGCATCGACATGAACGCGGTG
CTGAAGGGCTTCCCTGAGTGCCTGCAGGCTGACATCTGCCTGCACCTGAACCGCTCACTGCTGCAGCACTGCAAA
CCCTTCCGAGGGGCCACCAAGGGCTGCCTTCGGGCCCTGGCCATGAAGTTCAAGACCACACATGCACCGCCAGGG
GACACACTGGTGCTGCTGGGGACCTGCTACCGCCCTGTACTTCATCTCCCGGGGCTCCATCGAGATCCTGCGG
GGCGACGTGCTGCTGGCCATCCTGGGGAAGAATGACATCTTTGGGGAGCCTCTGAACCTGTATGCAAGGCCTGGC
AAGTCGAACGGGGATGTGCGGGCCCTCACCTACTGTGACCTACACAAGATCCATCGGGACGACCTGCTGGAGGTG
CTGGACATGTACCCTGAGTTCTCCGACCACTTCTGGTCCAGCCTGGAGATCACCTTCAACCTGCGAGATACCAAC
ATGATCCCGGGCTCCCCCGGAGTACGGAGTTAGAGGGTGGCTTCAGTCGGCAACGCAAGCGCAAGTTGTCTTTC
CGCAGGCGCACGGACAAGGACACGGAGCAGCCAGGGGAGGTGTGCGCCTTGGGGCCGGGCGGGGCGGGGCGAGG
CCGAGTAGCCGGGGCGCGCGGGGGGGCCGTGGGGGGAGAGCCGTCAGTGGCCCCCTCCAGCCCTGAGAGCAGT
GAGGATGAGGGCCCAGGCCGAGCTCCAGCCCCCTCCGCCTGGTGCCTTCTCCAGCCCCAGGCCCCCGGAGAG
CCGCCGGGTGGGGAGCCCCCTGATGGAGGACTGCGAGAAGAGCAGCGACACTTGCAACCCCTGTGAGGCGCCTTC
TCAGGAGTGTCCAACATTTTCAGCTTCTGGGGGGACAGTCGGGGCCGCCAGTACCAGGAGCTCCCTCGATGCCCC
GCCCCACCCCCAGCCTCCTCAACATCCCCCTCTCCAGCCCGGGTGGCGGGCCCCGGGGCGACGTGGAGAGCAGG
CTGGATGCCCTCCAGCGCCAGCTCAACAGGCTGGAGACCCGGCTGAGTGCAGACATGGCCACTGTCTGCACTG
CTACAGAGGACAGATGACGCTGGTCCCCCGCCCTACAGTGCTGTGACCACCCCGGGGCTGGCCCCACTTCCACA
TCCCCGCTGTTGCGCGTCAGCCCCCTCCCCACCTCACCTTGGACTCGCTTTCTCAGGTTTCCAGTTTCATGGCG
TGTGAGGAGCTGCCCCGGGGGCCCCAGAGCTTCCCCAAGAAGGCCCCACACGACGCCTCTCCCTACCGGGCCAG

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FIGURE 2454B

CTGGGGGCCCTCACCTCCCAGCCCCTGCACAGACACGGCTCGGACCCGGGCAGTTAGTGGGGCTGCCCAGTGTGG
ACACGTGGCTCACCCAGGGATCAAGGCGCTGCTGGGCCGCTCCCCTTGGAGGCCCTGCTCAGGAGGCCCTGACCG
TGGAAGGGGAGAGGAACTCGAAAGCACAGCTCCTCCCCAGCCCTTGGGACCATCTTCTCCTGCAGTCCCCTGGG
CCCCAGTGAGAGGGGCAGGGGCAGGGCCGGCAGTAGGTGGGGCCTGTGGTCCCCCACTGCCCTGAGGGCATTAG
CTGGTCTAACTGCCCCGGAGGCACCCGGCCCTGGGCCTTAGGCACCTCAAGGACTTTTCTGCTATTTACTGCTCTT
ATTGTTAAGGATAATAATTAAGGATCATATGAATAATTAATGAAGATGCTGATGACTATGAATAATAATAATTA
TCCTGAGGAGA

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FIGURE 2455A

AGTCCAGAGCGAGCGGGTTATGCCTCCGCCTCGTTGCCCTGAAAGCCGCAGCGACAGCGAAAAGGGCTAAGATT
GGCCATGAGCAGCGCCCCCTCGGCGCCCCGCCAAGGGCGCAGATTCTTTCTGTACGCCAGAGCCAGAGAGCTTGGG
CCCTGGGACGCCTGGGTTCCCCGAGCAGGAGGAAGACGAACCTTACCAGCACCTGGGCGTGAGCGGTTTGAGGA
GATCCTACAGGAGGCCGGGTCTCGTGAGGGGAGGAGCCAGGCCGCAGCTATGGGGAGGAAGACTTTGAGTACCA
CCGCCAGTCTCCACCACATCCATCACCACCTGTCCACCCACCTGCCTCCGGATGCACGCCGCCGCAAGACACC
CCAGGGCCCAGGACGGAAGCCTCGAAGGCGCCCGGGAGCCTCCCCGACTGGAGAAACCCCGACCATTGAGGAGGG
GGAGGAAGATGAGGATGAGGCCAGCGAGGCTGAGGGGGCCCGGGCTCTCACTCAGCCGTCCCCTGTCTCCACACC
CTCCTCGGTGCAGTTCTTTCTCCAAGAGGATGACAGTGCTGACCGGAAGGCAGAGAGGACCAGTCCATCTTCCCC
TGCACCACTGCCCCACCAGGAGGCGACTCCTCGGGCCTCAAAGGGGCCAGGCTGGAACCCAGGTGGAGGAGGC
GGAGGCGGAGGCGGTGGCGGTGGCCAGTGGCACTGCAGGGGGTGACGACGGGGGTGCCTCGGGGCGCCCCCTGCC
CAAAGCCCAGCCTGGGCACCGCAGCTACAACCTTCAGGAGAGGAGGCGCATCGGGAGCATGACTGGGGCTGAGCA
GGCACTGCTGCCCCGGGTCCCCACGGATGAGATTGAGGCCAGACGCTGGCCACGGCCGACCTAGACCTCATGAA
GAGTACCGGTTTGAGGACGTTCTTGGGGTGCGGCGGCACTTGTTGCGGAAGAATGCCAAAGGTTCCACACAGAG
TGGCCGAGAAGGGCGGGAGCCTGGCCCCACACCTCGGGCCCGACCCCGGGCCCCCACAAGCCCCATGAGGTGTT
TGTGGAGCTGAATGAGTTGCTCCTGGACAAAAACCAGGAGCCCCAGTGGCGGGAGACAGCTCGCTGGATCAAATT
TGAAGAGGACGTGGAGGAGGAGACTGAGCGCTGGGGGAAGCCCCACGTGGCCTCCCTCTCCTTCCGAGTCTCCT
GGAGCTCCGCAGGACCCTGGCCCCATGGGGCTGTGCTCTTGATCTGGACCAGCAGACCCTGCCCGGAGTGGCCCA
CCAGGTGGTGGAGCAGATGGTCATCTCTGACCAGATCAAGGCCGAGGACAGGGCCAACGTGCTGCGGGCTCTGCT
GTTGAAACACAGCCACCCAAGTGATGAGAAGGACTTCTCCTTCCCCGCAACATCTCAGCTGGCTCCCCTGGGCTC
CCTGCTGGGGCATCACCATGGTCAGGGGGCTGAGAGTGACCCCCACGTACCGAGCCTCTCATGGGAGGTGTTCC
TGAGACCCGGCTGGAGGTGGAGCGAGAGCGTGAGCTGCCGCTCCAGCACCACCAGCTGGCATACCCGCTCCAA
GTCCAAGCAGAGCTGAAACTGCTGGAGAAGATTCTGAGAATGCCGAGGCCACGGTGGTCTTGTGGGCTGCGT
GGAGTTCTCTCCCGCCCCACCATGGCCTTTGTGCGGCTCCGGGAGGCTGTGGAGTTGGACGCAGTGTGGAGGT
GCCGGTGCCTGTGCGTTTCTCTTCTGCTGCTGGGCCCCGAGTAGTGCCAACATGGACTACCACGAGATCGGCCG
CTCCATCTCCACCCTCATGTGACACAAGCAATTCCACGAGGCGACCTACCTGGCTGACGAGCGGGAGGACCTGCT
GACGGCCATCAACGCCTTCTGAGCTGCAGCGTGCTGCTGCCGCTTCAGAAGTGACAGGGCGAGGAGCTGCTGCG
CTCTGTGGCCCACTTCCAGCGCCAGATGCTCAAGAAGCGAGAGGAGCAGGGCCGGCTGCTACCTACAGGGGCTGG
GCTGGAGCCCAATCTGCCCAAGATAAGGCGCTCCTGCAGATGGTAGAGGCGGCAGGGGCAGCTGAAGATGATCC
CCTTCGGCGGACGGGGCGGCCCTTTGGGGGGCTGATCCGAGATGTGCGGCGCCGCTATCCCCACTACCTGAGTGA
CTTCCGAGATGCACCTTGACCCTCAGTGCTGCGCCGAGTCATCTTCACTACTTTGCCGCCCTGTCTCCTGCCAT
CACCTTTGGGGGGCTGCTGGGAGAGAAGACGCAGGACCTGATAGGGGTGTGCGGAGCTGATTATGTCCACAGCGCT
CCAGGGCGTGGTCTTCTGCTGCTGGGTGCCAGCCCCCTGTTGGTGATCGGCTTCTCAGGGCCCCCTGCTGGTCTT
TGAGGAGGCTTCTTCTGTTCTGTAGCAGCAACCACCTGGAGTACCTGGTGGGCGGTGTGTGGATCGGCTTCTG
GCTGGTGTCTTGGCCCTGCTCATGGTGGCCCTGGAGGGGAGCTTCTGGTCCGCTTCTGCTCCCGCTTACCCCA
GGAGATCTTCGCTTCTTGATCTCACTCATCTTCACTATGAGACCTTCTACAAGCTGGTGAAGATCTTCCAGGA
GCACCCCTGCATGGCTGCTCAGCCTCCAACAGCTCAGAGGTGGACGGCGGTGAGAACATGACATGGGCCGGGGC
AAGACCCACGCTGGGGCCGGGCAACAGGAGCTTGGCTGGGCAGTCTGGGCAGGGGAAGCCCCGGGGCCAGCCAA
CACGGCCCTGCTGTCGCTGGTGCTCATGGCCGGCACCTTCTTCATCGCCTTCTTCTGCGCAAATTCAAGAACAG
CCGGTCTTTCTTGGCCGATCCGGCGGGTGATTGGGGACTTTGGGGTGCCCATCGCCATCCTCATCATGGTGCT
TGTGGATTACAGTATTGAGGACACCTATACCCAGAAGCTGAGCGTTCCAGTGAGTTCTCGGTGACTGCCCCAGA
AAAGAGGGGCTGGGTCATCAACCCCTGGGAGAGAAGAGCCCCCTTCCCTGTGTGGATGATGGTTGCCAGCCTGCT
GCCCCCATCCTGGTCTTCACTTCTCATCTTTCATGGAGACACAGATCACCACGCTCATCATCTCCAAGAAGGAGCG
CATGCTGCAGAAGGGCTCCGGCTTCCACCTGGACCTGCTGCTCATCGTGGCCATGGGCGGCATCTGTGCCCTCTT
TGGCCTGCCCTGGTTGGCTGCTGCCACTGTCCGCTCTGTCACTCAGCCAACGCGCTCACTGTATGAGCAAGGC
TGTGGCACCTGGGGACAAGCCCAAGATTAGGAAGTCAAGGAGCAGCGGGTGACGGGGCTGCTGGTTGCCCTGCT
TGTGGGCTCTCCATAGTTATCGGGATCTGCTCCGGCAGATCCCCCTGGCCGTGCTCTTTGGAATTTTCTGTA
CATGGGAGTCACCTCCCTTAACGGGATCCAGTTCTATGAGCGGCTGCATCTGCTGCTCATGCCGCCCAAACACCA
CCCAGATGTCACTTACGTCAAGAAGGTCCGGACCCTCCGTATGCACCTGTTACGGCCCTGCAGCTGCTCTGCCT

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FIGURE 2455B

GGCCCTGCTCTGGGCCGTCATGTCCACAGCTGCCTCCCTGGCCTTCCCCTTCATCCTCATCCTCACAGTGCCGCT
CCGCATGGTGGTGCTCACCCGTATCTTCACCGACCGAGAGATGAAATGTCTGGATGCTAACGAGGCAGAGCCGGT
GTTTGATGAGCGGGAGGGTGTGGACGAGTACAATGAGATGCCCATGCCTGTGTAGCCGCCACCGAGGGACAGCCG
AGGGACCGATGGACGAGGGGACAGGCTGGTGGGATGGGGTTCCCCCTCCCATGCCCTCCCTCCTTTTTATTAA
GTGAATAATTTAAAGTCTTCTCCTCCCCACTGCCCTGCAGTAAAGTGCTTTGGCCCCCA

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FIGURE 2456

GCGGCGGCGGGGAAGGAGGGGTGCTTCAGGTGCCTGCGACCTCCGCGCCTCCCGCCCGGAAGTGCCCGAGGGGGCC
GCGATGGAGCTGGGGGAGCCGGGCGCTCGGTAGCGCGGGCAAGGCAGGCGCCATGACCCTGATTGAAGGGGT
GGGTGATGAGGTGACCGTCCTTTTCTCGGTGCTTGCCTGCCTTCTGGTGCTGGCCCTTGCCCTGGGTCTCAACGCA
CACCGCTGAGGGCGGGGACCCACTGCCCCAGCCGTGAGGGACCCCAACGCCATCCCAGCCCAGCGCAGCCATGGC
AGCTACCGACAGCATGAGAGGGGAGGCCCCAGGGGCAGAGACCCCGAGCCTGAGACACAGAGGTCAAGCTGCACA
GCCAGAGCCCAGCACGGGGTTACAGCAACACCGCCAGCCCCGGACTCCCCGAGGAGCCCCCTCGTGCTACGGCT
GAAATTCTCAATGATTCAGAGCAGGTGGCCAGGGCCTGGCCCCACGACACCATTGGCTCCTTGAAAAGGACCCA
GTTTCCCGCGCGGGAACAGCAGGTGCGACTCATCTACCAAGGGCAGCTGCTAGGCGACGACACCCAGACCCTGGG
CAGCCTTCACCTCCCTCCCAACTGCGTTCTCCACTGCCACGTGTCCACGAGAGTCGGTCCCCCAAATCCCCCTG
CCCGCCGGGGTCCGAGCCCGGCCCTCCGGGCTGGAAATCGGCAGCCTGCTGCTGCCCCTGCTGCTCCTGCTGTT
GCTGCTGCTCTGGTACTGCCAGATCCAGTACCGGCCCTTCTTTCCCTGACCGCCACTCTGGGCCTGGCCGGCTT
CACCTGCTCCTCAGTCTCCTGGCCTTTGCCATGTACCGCCCGTAGTGCCCTCCGCGGGCGCTTGGCAGCGTCGCC
GGCCCCCTCCGGACCTTGCTCCCCGCGCCGCGGCGGGAGCTGCTGCCTGCCAGGCCCGCCTCTCCGGCCTGCCTC
TTCCCGCCGCCCTGGAGCCCAGCCCTGCGCCGAGAGGACTCCCGGGACTGGCGGAGGCCCCGCCCTGCGACCGC
CGGGGCTCGGGGCCACCTCCCGGGGCTGCTGACCCCTCAGCCCGCACTGGGAGTGGGCTCCTCGGGGTCGGGCATC
TGCTGTCGCTGCCTCGGCCCCGGGCAGAGCCGGGCGCCCCGGGGGCCGCTTAGTGTTCTGCCGGAGGACCCA
GCCGCCTCCAATCCCTGACAGCTCCTTGGGCTGAGTTGGGGACGCCAGGTGCGTGGGAGGCTGGTGAAGGGGAGC
GGGGAGGGGCAGAGGAGTTCCCCGGAACCCGTGCAGATTAAAGTAACTGTGAAGTTTTCAAAAAAAAAAAAAA

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FIGURE 2457

MTLIEGVGDEVTVLFSVLACLLVLALAWVSTHTAEGGDPLPQPSGTPTPSQPSAAMAATDSMRGEAPGAETPSLR
HRGQAAQPEPSTGFTATPPAPDSPQEPLVLRRLKFLNDSEQVARAWPHDTIGSLKRTQFFPGREQQVRLIYQGQLLG
DDTQTLGSLHLPPNCVLHCHVSTRVGPPNPPCPPGSEPGPSGLEIGSLLLPLLLLLLLLLLWYCQIQYRPFPLTA
TLGLAGFTLLLSLLAFAMYRP

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FIGURE 2458

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTTCATCATCATGCCCCCTCCGACCTGGCCAAGAAGAAGGC
AGCCAAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAGGACATGAAGAAAATGGAGATGTTGTAC
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTTGCTGACCAAGGAGCT
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCTGGCCTCTCACCCCAACAGTACTGA
TGTTACATCATCAACCTCTCACTCACCTTTTCATGGTCAAGAGCTGCTCAGTGACACCAAACCTGGAATTAAACTC
AGGCCGTCGTTATGGCCTCATTGGTTTAAATGGAATTGGAAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA
AGTGCCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCTTGCA
TTGTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA
GTGTGAGAAGCTCATGGAGCTCTACGAGCGCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG
GATCTTGATGGACTGGGTTTCACACCTGCCATGCAGCGCAAGAAGCTAAAAGACTTCAGTGGGGGCTGGAGGAT
GAGGGTTGCCCTTGCCAGAGCCCTCTTTATTGGGCCCTTCATGCTGCTCCTGGATGAGCCTACCAACCACCTGGA
CCTAGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAACTTTAAGCGCATCTTGGTCTCGTCTCCCATTTCCA
GGATTTTCTGAATGGTGTCTGTACCAATATCATTACATGCACAACAAGAACTGAAGTATTATACGGGTAATTA
TGATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT
TGCACACATGAAGAACTACATTGCGAGGTTTGGTCATGGCAGTGCCAAGCTGGCCCCGCGAGGCCAGCAAGGA
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCTGTGAGCGATAAGACACTGTCATTTTATTT
CCCACCATGTGGCAAGATCCCTCCACCTGTCTATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGCC
TTGCATCTACAATAATCTAGAATTTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT
CAAGATAGGGCGTTACCATCAGCATTTACAAGAGCAGCTGGACTTAGATCTCTCACCTTTGGAGTACATGATGAA
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTGGGCGATACGGTCTCACTGGGAAACAACA
GGTGAGCCCAATCCGGAACCTGTGACAGCGGGCAGAAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC
CCACATGCTCTTCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTACAGCAGGTTGCACAGGAAATTTGGGT
CTGTGAGAAGCAGACAATCACCAAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT
GGATGAGGAGCCCCAGCTCACCAAGAGGACCCACAACGTGTGCACCCTGACATTGGCATCTCTGCCAAGGCCATG
AGCATCATGAACTCGTTTGTAAACGACGTGTTTGAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG
GGCCGGACCACCCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCTGCTGGGGAGCTGGCCAAGCAC
GCTGTGTCTGAGGGCACCAAGGCTGTACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAAATAAAGG
GTGAAGTGTAAAAA

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FIGURE 2459

MPSDLAKKKAACKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKKAARAVTG
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVP IPEHIDIYHLTRE
MPPSDKTP LHCVMEVDTERAMLEKEAERLAHEDAECEKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKK
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDLDACVWLEEELKTFKRILVLVSHSQDFLNGVCTNIIHMHN
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKEKTLQKMMASGLTERV
VSDKTLSFYFPFCGKIPPPVIMVQNVSFKYTKDGPCIYNNLEFGIDL DTRVALVGPNGAGKSTLLKLLTGELLPT
DGMIRKSHSVKIGRYHQHLQEQLDLDLSPLEYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLSDGQKCRV
CLAWLAWQNPHMLFLDEPTNHLDIETIDALADAINEFEGGMLLVSHDFRLIQQVAQEIIWVCEKQTITKWPGDILA
YKEHLKSKLVDEEPQLTKRTHNVCTLTLASLPRP

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FIGURE 2460

GCGTAATTAAAAGGCGGCGGAAGAAGGTGGGAGGGTCATGACGCAGCGAGTTTCAGTCGTGACTTTTCTGGGGGC
ATCGCGGCGTCCCCTTTTTTTTGCCTTTAAAGTAAAACGTCGCCCCGACGCACCCCCCGCGTATTTCTGGGGGGCG
GAGGCGGCGGGCCACGGCGCGAAGAGGGGCGGTGCTGACGCCGGCCGGTCACGTGGGCGTGTTGTGGGGGGGAGG
GGCGCCGCCGCGCGGTTCGGTTCCGGGCGGTTGGGAGCGCGCGAGCTAGCGAGCGAGAGGCAGCCGCGCCCGCCGC
CGCCCCTGCTCTGTATGCCGCTCTCTCCCGGCGCGGCCGCCGCGGATCACAGCAGCAGGAGCCACCGCCGCCGCG
GTTGATGTGGTTGGGCGGGGCTGAGGAGGCCGCCAAGATGCGCAGTCCAAGTCCCGGAAGATCGCGATCCTGG
GCTACCGGTCTGTGGGGAAATCCTCATTGACGATTCAATTTGTTGAAGGCCAATTTGTGGACTCCTACGATCCAA
CCATAGAAAACACTTTTACAAAGTTGATCACAGTAAATGGACAAGAATATCATCTTCAACTTGTAGACACAGCCG
GGCAAGATGAATATTCTATCTTTCCTCAGACATACTCCATAGATATTAATGGCTATATTCTTGTGTATTCTGTTA
CATCAATCAAAAGTTTTGAAGTGATTAAAGTTATCCATGGCAAATTGTTGGATATGGTGGGGAAAGTACAAATAC
CTATTATGTTGGTTGGGAATAAGAAAGACCTGCATATGGAAAGGGTGATCAGTTATGAAGAAGGGAAAGCTTTGG
CAGAATCTTGGAATGCAGCTTTTTTGAATCTTCTGCTAAAGAAAATCAGACTGCTGTGGATGTTTTTCGAAGGA
TAATTTTGGAGGCAGAAAAAATGGACGGGGCAGCTTCACAAGGCAAGTCTTCATGCTCGGTGATGTGATTCTGCT
GCAAAGCCTGAGGACACTGGGAATATATTCTACCTGAAGAAGCAAAGTCCCGTTCTCCTTGAAGATAAACTATG
CTTCTTTTTTCTTCTGTAAACCTGAAAGATATCATTTGGGTGAGAGCTCCCTCCCTTCAGATTATGTTAACTCT
GAGTCTGTCAAATGAGTTCACCTCCATTTTCAAATTTTAAGCAATCATATTTTCAATTTATATATTGTATTCT
TAATATTATGACCAAGAATTTTATCGGCATTAAATTTTCAAGTGTAGTTTGTGTTTAAATAATGTAATCATCAA
AATGATGCATATTGTTACACTACTATTAAGTGGCTTCAGTATATCAGTGTTTATTTTATTGTGTTAAATGTATA
CTTGTAATAAAATAGCTGCAAACCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2461

MPQSKSRKIAILGYRSVGKSSLTIQFVEGQFVDSYDPTIENTFTKLITVNGQEYHLQLVDTAGQDEYSIFPQTYS
IDINGYILVYSVTSIKSFEVIKVIHGKLLDMVGKVQIPIMLVGNKKDLHMERSISYEEGKALAESWNAAFLESSA
KENQTAVDVFRRRIILEAEKMDGAASQGKSSCSVM

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FIGURE 2462A

GATTTACTTGGAGAAGATTTGCTATCTGGCAAAAAGAATCAGTCGGATTTGTCAGATGAAGAGCTAAATGATGAT
CTTTTGCAGAGTGATAATGAAGATGAAGAAAATTTTCAGTTCTCAGGGTGTTACAATTAGTCTGAATGCTACATCT
GGCATGGTTACATCATTTGAACTCTCTGACAACACTAACGACCAATCTGGAGAACAGGAATCTGAGTATGAACAA
GAACAAGGAGAGGATGAACTGGTTTATCACAATCTGATGGATCAGAATTGTATACTCAAGAGTACCCAGAAGAA
GGACAGTATGAAGGCCACGAAGCTGAGTTGACAGAAGACCAATAGAATATGTGGAAGAGCCAGAGGAGGAGCAG
CTTTACACTGATGAAGTGTTAGACATCGAGATCAATGAACCTTTAGATGAATTTACAGGAGGTATGAAAACATTG
GAACTTCAAAGGACATCAAAGAAGAATCAGATGAAGAAGAAGAAGATGATGAAGAATCTGGACGATTACGTTTC
AAAAGTGAAGGAAAGAAGGAACAATTATTAGGCTCTCAGATGTAAGTACAGAGAGAAGGAACATTCCAGAAACT
TTGGAGCTTTTCAGCAGAGGCCAAGGCAGCATTGCTTGAATTTGAAGAAAGGGAGCGACAGCATAAACAAGGACGC
TACAGCTCCAGGCGGGGAGGACGGCGAGGAGGTCCGCTGATGTGTCGTGGTGTGGGGGACCAGAGGAGAGAGAGC
ACCGAGAGGGGCGAGGATGAAGGACCACAGACCTGCGCTGCTTCCTACACAGCCTCCTGTCGTGATACTTCCAGAG
GAGGAATTAATGAGCGACCTGATGCCCTAAGATGACATAAGCTGTTGGACCTTGCTACCTAAAGCCTCTAGAGAG
CCCCAGGCTCCCCCTCCACCGCTCCGCGCCTCAGCAGCAGCCGATCAGAAGCCTGTTCCAGCCGAGCCGCTG
CAGCCGCTGCTTCCGGTGCAGCACCCGACACCCCATCCCCGCTCAGGGAATGCACATGCCTCCCCAGCTAGAG
ACCCCAAGGATGATGATGACCCCGCCACCCGTGACTCCACAGCAGCCCAAGAACATACACATCAACCCGCACTTC
AAAGGGACGGTGGTCACGCCTGTTCAAGTGCCCTTGCTACCAGTTCCGAGCCAGCCGAGACCTGCCGTGGGACCC
CAGAGATTCCCAGGCCCTCCAGAATTTCCACAGCATAACCTGGACCTGTTCCCAACAGTTTCAGCCAGCCCCCA
CGACTCCCTCTCCAGGACAGTGGAGAGCCCCACCCCGCTCAGGATCGAGACCCTTTCTTCTTAGGAGTTTCA
GGTGAACCAAGATTCCCAGCCATCTTTTTCTGGAACAGCGAAGTCCCCCTCCACCACCACCGCCTCCTACCCTT
CTTAACAGTAGCCATCTGTTCTACTCAGAGTCTCTACCAATCACTCAGCCAGGACCAGCATTTAATCAGCAA
GGACAGCAGCCAGTGTTCCTAAGAGAGCGGCCCGTACGACCGCTTGACGCTCCAGGTCCGGTGGGGATTCTG
CACTTTAGCCAGCCTGGGTCCGCAACACACAGGCCCTTCATTCTCTAGACAGCCGTTCTGCCAGGCCAGGA
CAGCCGTTTCTGCCACACACACAGCCCAACCTGCAGGTAATGCATCCTGAGTGAACCTCCAGGGAAAAAATG
TGAGCTTCAAGGCTTTGTGTTCCATAAAGTTTTAGATTTTTATTGAGCCTACTAATTTGTGGTTATTTAAAGA
ATAGAGTATTAGTCTCAAATGTACTGTTTGTAAAGACAACTTTTTCAACAATGTTACTTATCTCAATACAAGA
AAAAAATGGGAAAATGTCATTTTTTGGGAATTGAAAAATGCTACTATTATAATTGTTTAAAGGGTATACTACTA
ATAAAATTAGGACATGTTTTGATAATACATTTGCTCATCTGTATAAAATTTTCATGAGAGGTTTACCAGTGGAAAT
ACTTTGTCAAATTATATTCCTGCAGTAGACAGTTTTGAAAAGAGTCTTTGCATGGAGGGAAGAAGATGTTGCTGT
TCACTGGTTATTTGAAGGCCTTGAGTGCCCTCTGCCGACCGGCTTCTGCTTCATGGGTTTTACTGGTTATTTGA
AGGCCTTGAGTGCCCTCTGCCCATCGGCTTCTGCTTCATGGGTTGACATGCGTCTGTAACATCTTTCTTACCAAG
TGTATATTTCTTCTTGTATTGTAGGGTTACTATTAAATACATAGCGATGGTAAACTTGAATCAACTATTTAAAA
ATACGTGGAATACGTATCTAAGCCAAAAACGGAAAATGAATATTATCTAGGGTGTAAAGGAAGATAAAATGTTT
TTAAGAATTTTTCTTTTTATTAAAAAATGCAATTAATACATCCCCATTGCAGAAATTTTCAAGTATATATAAGA
AAGGAAATTAATACTCTCGTTACCTAGAAACAATTCAGGAGCTTTTTTTTTTGTCTTTTTTAAATGCACATCT
TCTCGCCACCTGCTTTTTCCCTCCAGTGTACATATCATTTGATCTTTTCATGTCAGCGAGTTGGTTTTGATGCC
ATCGTTTGAGAGTGCTGTATGCGGTTCCCTTTTCATGCTGTCTGTGTGGTTGCATGTGTGTATACTGGTTTCAGTA
CTTTAGTATCATAGTGCTACAGGGAACATGCTTTAGAGTTATGAGTTTGTCTGCATACCTAGTTTTCCTTAGGAC
AATTCAATCCTAGAAATTACTGGATTAAATATAAAATTTAAGGTAATAGCTTCTGGCTTATTACTGCATTTTAGAT
AGTATTACCTTCATCAGCAAGTCTAAATGAAGTTTTGGTATCGCTGAAAGTTCCTTTCTTGTGTTGAGGTTTTT
TAGGAAATGATTGAAGTGATTATGCCCCGGTGAACCATTTATGAAGTGTGTTTCTCTTTCTTGGAAATGGAAG
GGGCGGTTGCATCCTCCATTGCCCCCTCCGCATCAGCCTCAGCCTCAGCAACCTCAGCAACAGCCCCCGCCACAG
CACCAGCCTCCGCACCAGCCCCCGCACCAGCCCCCGCCCCAGCACCAGCCCCACCCAGCACCCACCACAGCAC
CCGCCGACAGCACCAGCACCACCACCACCACCACCTGTCCGTCCCGCCCCCTCCTTTGATGCCGATGTCTCAG
CCACAGTTCGGGCTCACGTACAGACCGCTCAGCCTCAGGCCAGCAGCAGCCGGATGCAGTGCCCCCAGCGCCAG
GGGCTCCGGCATAATACTTCTCAGAATGTAAGCAAGCGGCCATGCAGCAAATGCAGCCCACTGCGCCAAGG
AACAGCAATTTGCGTGAATTACCCATAGCGCCGTACACGTGATAGAAATGAGCAGCAGCCGCTGCTCTGCCACG
CCCTCAGCACAAGTGAAACCTATCGTCAGCGCGTACCACCCTCGCGGGCGTGGCGGGTTCCAGAAGCTCACAG
GGAAAGACGGAAGTGAAAGTCAAGCCAGCTAGCCCTGTGGCTCAACCTAAAGAAGAGGCAAAAACAGAAACAGAG

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FIGURE 2462B

TTTCCTGATGAAGATGAGGAAACAAGGTTATATCGCTTAAAGATAGAAGAACAGAAACGCCTAAGAGAAGAAATC
CTGAAACAGAAGGAGTTACGGCGGCAGCAGCAGGCTGGTGCCAGGAAGAAGGAGCTGCTGGAGAGACTCGCGCAG
CAACAGCAGCAGCTGTACGCTCCCCACCCCCAGCAGAGCAGGAAGAGCAGGCACTGTCACCATCACCCACCAAC
GGTAACCCACTGTTGCCCTTTCCAGGTGCACAGGTCAGACAAAATGTGAAGAACAGACTTCTTGTTAAAAACCAG
GATGTCAGTATTTCAAACGTTTCAGCCAAAAACATCCAATTTTGTACCATCCAGTGCCAACATGCAGTATCAAGGA
CAACAGATGAAAGCACTGAAACATTTGAGACAGACCAGAACAGTTCCTCAAAGTCAGACTCAGCCGCTGCATAAA
GTGCTCCCGATCAAACCTGCAGATGTGGAGGAGCCAGCTGTCCCCCAGACTCCTCGAGTGGCGTCCATCCAGGGC
CGGCCCCAGGACACAAAGCCTGGCGTGAAAAGGACTGTCACGCACAGGACAAACAGTGGTGGTGGAGACGGGCCC
CACATCAGCTCCAAGGTCAGGGTGATTAAGCTGTCAGGTGGGGTAAGTTGACAAGTTTTATGAGAGCCTCTTTGA
GTCTGTGTATCACATAGAATGTCTCATTTCAGAGAATGTTTTTGAAGAAAGAATTAAAAGTTACCTCTGTTAT
AGTCTTGTAaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

FIGURE 2464

GCCGGTGTCTGCTGCGGTACCTGTTTCCAACACGGCTCGCGGGCCCGTGCCGGCTCCGGTCCCCGGCGCGGGCTG
 TCCGAGCCCCCTGCGGCGGGCGGACGATGGTGTGGCGGAGCACGCGGACGCGGGCGGGCGCGGGCGGGCATGAAG
 GAGGATGGAAGGGCAGGACGAGGTGTCGGCGCGGGAGCAGCACTTCCACAGCCAAGTGCGGGAGTCCACGATATG
 TTTCTTTCTTTTTGCCATTCTCTACGTTGTTTCTACTTTCATCATCACAAGATACAAGAGAAAAATCAGATGAACA
 AGAAGATGAAGATGCCATCGTCAACAGGATTTCTGTTGTTTTTGAGCACGTTCACTCTCGCAGTGTCTAGCTGGGGC
 TGTTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTTCTCAGAACTACTATATTAGTG
 GCTAAATGGCTCCCTGATTCATGGTTTGTTGGAATCTTGCTTCCCTTTTTTCCAACCTTTGTTTATTGTATTGAT
 GCCCTTTGCCTTTTTCTTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAAAAGGGAATCCGAGCCCGCATTTTAGA
 GACTTTGGTCACTGCTTCTTCTTCTTGCGTTACTCATTCTTGGGATAGTGTGGGTAGCTTCAGCACTCATTGACAA
 CGATGCCGCAAGCATGGAATCTTTATATGATCTCTGGGAGTTCTATCTACCCTATTTATATTCTGTATATCATT
 GATGGGATGTTTGTACTTCTCTTGTGTACACCAGTTGGCCTTTCTCGTATGTTTACAGTGATGGGTGAGTTGCT
 AGTGAAGCCAACAATTCTTGAAGACCTGGATGAACAAATTTATATCATTACCTTAGAGGAAGAAGCACTCCAGAG
 ACGACTAAATGGGCTGTCTTTCATCGGTGGAATACAACATAATGGAGTTGGAACAAGAACTTGAAAATGTAAAGAC
 TCTTAAGACAAAATTAGAGAGGCGAAAAAAGGCTTCAGCATGGGAAAGAAATTTGGTGTATCCCCTGTTATGGT
 TCTCCTTCTTATTGAGACATCCATCTCGGTCCCTCTTGGTGGCTTGTAATATTCTTTGCCTATTGGTTGATGAAAC
 AGCAATGCCAAAAGGAACAAGGGGGCTTGAATAGGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGC
 GCTTGAAATCATTTTGATTTTCTATCTTATGGTGTCCCTCTGTTGTGGCTTCTATAGCCTTCGATTTTTTGAAA
 CTTTACTCCCAAGAAAGATGACACAACATGACAAAGATCATTGGAAATTGTGTGTCCATCTTGGTTTTGAGCTC
 TGCTCTGCCTGTGATGTGAGAACACTGGAATCACTAGATTTGATCTACTTGGCGACTTTGGAAGGTTTAATTG
 GCTGGGAAATTTCTATATTGTATTATCCTACAATTTGCTTTTTTGCTATTGTGACAACATTGTGTCTGGTCCGAAA
 ATTCACCTCTGCAGTTCGAGAAGAACTTTTCAAGGCCCTAGGGCTTCATAAACTTCACTTACCAAATACTTCAAG
 GGATTGAGAAACAGCCAAGCCTTCTGTAAATGGGCATCAGAAAGCACTGTGAGACGCACAGACGGCGTCTTCTGC
 CACCAAGAGACCCGAGAACTCCAGATTCACGACATTCCTGTCCCATGTAGAAGCATTTCATTCAACCGTGGCCC
 CTCTTCAGAACCTAGACCTATCAGTGCCATTTTTTTTTTCTAATCTACGAAGAACTTGGCTATGGCTGATCTTTT
 TTAATTTAACTTTCTGATGGACCCTGTAGTTTCCAGTTAAGTGCAGATTCTTTACAGACATATAGAACAGCGCA
 TTCTTCTGTAGACATTTGCTCATGTTGGTAAATACAATCACCCTATGAAAAAATTGTTTTACCTGATATGAAA
 ATGTTAGAAAAGGCAAACTCCGGGACTTCTAAAGATTTACTTAAATCCATTATGTACTTTATTGAGAATGTAGA
 AGCTGACTTGAAAGGCATCCTTGGTACTAAGTGAAGCTTATTCAGAAAATGCATTTTTTCAAATGCAATGGCAACT
 GCTTGTAGATATCATTTTTTGCAGTGTATGTTGGAGCTGTAATGGTTGCAATTATGTTTTCTTATTTCTTAAAAGC
 AAAAAGCGTATGTTTCTGATTTATGTTATAGAATGATACTGATTAGACTTTGAGCCAAGGGGAAAAATACTAAATTC
 TTTTAAACCTGGAGCCTTAGAGAGCCACAGGAATATCTTCTGTTGTACAGTCTAATAAGCTGTGGTAGGAAGTAT
 CATGTAATCACAGTTTAAATGACAGTTTATGTATATATATAATTGAGTATTCCTCTGATAACATAGTTGCCAGTG
 TTTAATACACTTGTAACCTTGGATTTTTACCTTATAGGCTATATGTATACTCAGTTTTTTAAAGCATTTTTTTCAG
 AGATCACTTAAATCCCATGCTTCTGCAATGCATATAAAAACTATAAATGCCGAGTGGTAGAACTCCTCTTTCT
 TCATAGTCCTCAGGCTTTGGTTACATTTGCATATGCCATTTGAAGCCTCCAGCTTTTACCAGTTTAAACATCCAAA
 GTTCACAGCATCAGCATTTCATGGTGTAAAGACAGTTTTTGAGTATAACACGATCTGATAATCATTGAGTTATTAA
 ATTGTAAATAATTATTGGGATGGTTTCTTGGCTTTAAGTCCACTGAATAAAACTATGAAATTGCAAAAAAAA
 AAAAAA

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FIGURE 2465

MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIVNRISLFLSTFTLAVSAGAV
LLLPFSIISNEILLSFPQNYIIQWLNGSLIHGLWNLASLFSNLCLFVLMPPFAFFFFLESEGFAGLKKGIRARILET
LVMLLLLALLILGIVWVASALIDNDAASMESLYDLWEFYLPYLYSCISLMGCLLLLLLCTPVGLSRMFTVMGQLLV
KPTILEDLDEQIYIITLEEEALQRRNLGLSSSVEYNIMELEQELENVKTCLKLEERRKKASAWERNLVYPVMVL
LLIETSISVLLVACNILCLLVDETAMPKGTRGPGIGNASLSTFGFVGAALIEIILIFYLMVSSVVGFYSLRFFGNF
TPKKDDTTMTKIIGNCVSILVLSSALPVMSRTLGITRFDLLGDFGRFNWLGNFYIVLSYNLLFAIVTTLCLVRKF
TSAVREELFKALGLHKLHLPNTSRDSETAKPSVNGHQKAL

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FIGURE 2466

TCTTTCCGTAACCGTAGCTTGAGGCACATTTCTTAAATATGCAGCATGGAACGCTTGGCGGTTCTGAACGCGCAT
CTCGTGCTGCTCCTGTAGGGCGGTTAGGACGCGCTCCTCTGGCGAGGAAGGTGGCAGCCTCCACTGTGCACGGGT
CACAGGCGAGTGTGGTGTGGTGTGGTGTGGGTGGGGTGTGGACTGGATCTGCAGGCTTGTCCCTCTCTCGTGGA
GAGCTGTGCGGGTCCAGGCAGTGCTCAGTGGTGAGAGCCACAGCACATTTGAAAGTCCACATGTGTTTGCCCCAC
TGTGGTCCAGGACATGTGTGAGCCACACTCAGTGGACTTGCACCTGTGACATGTTGGTCAGCGTGGCGGCCGTCA
GCTGGGTGTGGAATGCATCTGATTGGAGCCTGGCACCCGGCCTACCATGATTGTGATTCTCTGGGGCGAGTCCTG
AGTGTGGGCAGGGCCTCAGGCCCCCAAGAGGGCTGTGAGCAGGCACCTTCCTGTGAGGCACGATGCCACCATGTG
AAGTTGTGTGGGTCTTTGGAGAGTTCTGGCAGGTTGAGGGCCTGTGCGTGTGGGACCCAGGCCTGCCCTGCCTGC
TGCCGGCCATGTTCCCTCTGCCCAGTCATGTTGACAATTGTGGCCAAATTCAACATCGGGCCTGTTTCTCTGCACC
CACGTTGGCACACACTGAGTTCAAGACAGTTTCTGCAGAAATGAATCCAGAGGTGTTTATTTCTGGCACGTTGGA
TCAGACGTTTCAGAGGGTGGGCGTCTTTCTCCATGCACCTTCAGCTGGATCAGTCAGTGTGAGCCATTGACTTTAGC
AACAGGGAATGAAAGACTTTCTCAATAAGAAATGGGACTTTCTCACGCTGGATGGCACAGAGCTGGCAAACAT
GAGGCCAGTCCACACCAAGGCTTTGCCTGCAGAAAGGCTGCACTGTGGCCAGCGGGGAAGCGGAGGAGACACCT
GTGGACACCCTCCCCACAGGTGGGCACACCTTTGCGCAGGCCCAGTGTGCGTTCTGAAGGAGAGCCAGGGTGGG
GTTCCGGGACTGAGGTGCAGCCGTGTCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGGTAGGTCCC
AGGGTGGGGTTCCAGGACTGAGGTGCAGCCGTGCCAGGGTGGGCTTCTAGCTCTGCCGCTGGGCGGAAGTGGGGTAGGTCCC
TAGTCCCAGGGTGGGCTTTTAGCTCTGCCGCTGGGCGGAAGTCCGGTAGGTGGGAGTCTCTCACTTCTCTGCAGGG
TGGTGAAGCTCTCTGGGTAGTGTGAGCAGTTCTCAACGTGCACCTTGGAAAGCGCCCGTTTTGAGGTTTAGCTGT
GGCCAAGATAGATGACTTCATTTTGTGCTTTTGTCTTAAACATGGGGAGATATTTAGAAAACATGTTTGGCTC
TTGCTGGGGAAGCAGTGTGTTCCGTACAGTGTTTTACAAGCCGTGTTTCTTAGGATTGAAAGAAGGTGGCAAG
AGGAAGAAGCAGAAGCAGAGAGAGGAGTGAAGAAGAAGAGTCGACCAAAGGCAATCACTAGACCGGACTTGAG
GCACGCGGTGCACCCCCAGACGCTGGCGCTCCACCGTGCTCGGCATGCGGTGCTGCACACGCGCTAGGTAGCAGC
GTCGGTCAGGACTGTCTCGAGGCCACACTCGCTCGGCAGGATTATGCGATCACGGATCAGTCAGAGCAGGGTCAG
GAGACGGGGCTGACGGCACGGGTGGCGGGGACAGACGTTTGGGACTTGGCCGCGACTCTCTGCTTCTCTCCAGCT
CTCAATCTGCTGCATTTTCTCTAGTGCTTCCGGATCCTCTTCATTCTTTTCGGCTACTCAACCACTCCGCTATGC
TGCTGGAATATTTCTGGCTTTAGAAGTACAGGAGGGCGCAGATGGCTAACTGAGTAACATTTCATGAAATGAGGCT
TTCTGTGGCGGCGTAGTGTGTTGGAATTAGAAGGTAATTCAGTAGAGTGTAAGTATAGAGAATATTGCAAGTGACAC
ATTGAATCCTGCCCCGTCAGGGCACCTTTTCTCAGAGCAATCCGGCCACACGAATAGAAGGCTGTGCTGAATCAC
ATCAGATGTAAATCATTCTTCTGTTTACTCTTTTAAATTTTTCATCCTTTGCAGGTAGTGCAAATTCAACTTCAA
ATATGGTGTAGGTTTTGCTAGATTCCATATTTTTTTCTTGGATTTTGTCTAATTATTTTGTAGCAAAAAATTTTGT
CTCAGTGGCACTCTCCCTAGTGTCCATGGGTTAGGGCCATGCTGGGGAAAACGGGCGGTATTTACACACGCGCA
AAACACCCAGAGACGGCACAAAGGAGGTTGAACTCATGTTTCAGTTCGCGAACATTGACTCCTTACGAAAGTCACT
TCATTCTAACTAGATGCGCCCACTTCCGGTCATTATTTTCGTTTGCATGATGATTGCTTCTTCACGTTTTGTTTT
TATTGAGCACGGAGTAGAATTCAGGGCTGCCTTGACTTCTTCCCTGCATGCTCCCTCCAGTGACTTTCTTCC
CTTTTCATGAGGATCTGCCGTTTCATGTTGCTTTCTCCTTTGTCTCTTGGACTTGAAGGCATTGTGAAAAGCTT
TGCTGTGATTTAAAAATGCCAGCAATTTTAACTAGCAGTGTTGAAGCTGGGAATTTTTTGGCGCAATCCATGTA
GCAGTGACCCAGGCTTGGGAGCCAGAAACAAGTGTGACCTGGGATTTTATTTAACACAAGTGTGCCAAAGAGTT
GGCTTTGTTTTATTGTTTTGGCGGGGAGAGGAGTGATTTGATGCTTTCTGTGGACAATGTAACCCTAAACAC
ATCATGTATTTTAAATGCCACCTACATAAATAAAACATAAGCATATTGAATAC

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FIGURE 2467

CTAAGACAGGTGCAGACGTAATGTCGGCTTTGGCGTATCCATCAAGCTTTATATTGCTTTGATTATGATTTGGAGG
AAAGTGGAGAAATTAAAGATATGTTACTTGAGTGCCTTCATAAATATTAATTATATCAAGAAAGAAGAGGGAAGAA
GATTTCTTAGTTGTCTCTTCAACTGGAATATCAACTTCATCAAAATGATCCACGGGACCATTAAAAACCAGTTAC
AGGGATTACAAAAGTCTTTGATGGTATACATTGCAGAAATTTATTTTCAGAGCTTGGAAGGCTTCAGGGAAAA
TACTGGAGGCGATTGAAAATGATTGCATCCAGGACTTCAIGTTTTACGGGATACACCTTCCGAGGAGGTCTCCAG
TGCATTCCAAAGTGCAGGAGGTTCTGAGTTACTTTTACCATCAAAAGAAAGTTCCGGCAGGGAGTGGAAGAGATGC
TTTATAGATTATATAAGCCCATCCTTTGGAGAGGATTAAAGGCCAGAACTCTGAAGTTTCGATCAAATGCTGCAT
TGTTGTTTGTGTTGAAGCAATTTCTTATTAGGGATCCAAACCTTTCATGCTATTGAAATGGATAGTGAAATCCAGAAAC
AGTTTGAAGAGCTCTATAGCCTTTTAGAAGATCCTTACCCGATGGTCCGTTCCACAGGGATCCTTGGTGTGTTGTA
AAATAACTTCTAAGTACTGGGAAATGATGCCCCGACCATTCTTATTGACCTCCTGAAGAAGGTGACTGGGGAAC
TGGCATTGACACGAGCTCAGCTGATGTTCTGTTGTTCTGTCTTTAAGTGTCTGCCAATGATTTTGGACAACAAAC
TGAGCCACCCATTGTTAGAGCAGCTCCTTCCAGCTCTCAGATACAGTCTCCACGACAATTCGGAGAAAGTGAGGG
TAGCTTTTGTGGACATGCTGTTGAAGATCAAAGCTGTGAGGGCTGCTAAGTTTGGAAAATATGTCCCATGGAGC
ACATTCTGGTTCTGCTGGAAGTGAATCTCGACCTGTGTCTCGGCGCCTGGTGAGCCTCATCTTTAATTCCTTCC
TGCCTGTGAATCAGCCGGAGGAGTCTGGTGCAGCGCTGTGTACCCCTGGTGAGATGAACCACGCCGCTGCCA
GGAGGTTCTATCAGTACGCCCCACGAACACACCGCTGCACCAACATAGCAAAGCTGATTCACGTTATTCGTCATT
GCTTAAATGCCTGTATCCAGAGGGCAGTGAGAGAGCCTCCAGAGGACGAGGAGGAAGAGGACGGAAGGGAGAAGG
AGAATGTGACTGTTCTGGAACAAACACTGTCAAGTAAACGATGTTGCATGCATGGCAGGTTTACTAGAAATCATTG
TGATTCTCTGGAAGATATTGACAGAAGTATGGAATAATAAAGAGGCCAACTTTACACGATTAACAAGTTTG
CCTCTGTGCTTCCAGAGTATCTGAAAGTATTTAAGGATGATCGCTGCAAGATCCCTTTATTTCATGCTAATGTCCT
TTATGCCGGCCTCTGCTGTCCCCCATTCAGCTGTGGTGTGATTTCCACGCTGAGAAGCCGGGAGGAGGGCGCTG
TGGACAAGAGCTACTGCACTTTGTTGGATTGCTCTGCTCCTGGGGCAAGTGGGGCACATTCTGGAGCTTGTG
ACAACCTGGCTGCCCACAGAGCATGCCAGGCCAAGAGCAACACAGCTTCTAAAGGTAGGGTGAGATCCATGACA
CAGCCCCAGTCAAACCTGAATTGGCATTGGTCTACATTGAGTATCTGCTGACTCATCAAAGAACCAGGAGTGCT
TGCTCTCTGCTCCTCGGAAGAACTTAACCATCTTTTGAAAGCCCTTGAAACGTCAAAGGCAGATCTGGAGTCAC
TTCTGCAGACACCGGGTGGGAAGCCTCGTGGCTTCAGTGAAGCAGCTGCCCCGCGAGCCTTTGGTCTCCACTGTC
GCCTGAGCATCCATCTTCAGCACAACTTCTGCTCAGAAGGAAAGGTGTATTTGTCCATGTTGGAAGACACTGGCT
TTTGGTTAGAAAGCAAATTTTATCTTTTATTCAAGATCAAGAAGAAGACTACCTGAAGCTTCATAGGGTCATTT
ATCAGCAAATTATCCAGACCTACCTGACTGTGTGTAAAGATGTTGTTATGGTAGGCCTTGGTGACCATCAGTTTC
AGATGCAACTCTTACAGCGGAGTCTTGAATCATGCAAACAGTGAAGGGATTTTTTTTATGTTTCATTACTTCTTG
ACATTCTGAAAGAGATAACTGGAAGTTCTTTGATTCAGAAAACAGATTTCAGATGAAGAAGTTGCAATGCTGTTGG
ACACAGTCCAGAAAGTATTTTCAAGAAATGTTGGAATGTATTGCACGGAGCTTCAGGAAGCAGCCGGAAGAAGGCC
TGCGGCTGCTTTATTCTGTTTCAGAGGCCTCTTCATGAGTTCATTACTGCTGTTTCAGTCTCGGCACACAGACACCC
CTGTGCACCGGGGTGTACTTTCTACTCTGATCGCTGGGCCTGTGGTTGAGATAAGTACCAGCTACGGAAGGTTT
CTGACGTAGAAGAGCTTACCCCTCCAGAGCATCTTCTGATCTTCCACCATTTTCAAGGTGTTTAAATAGGAATAA
TAATAAAGTCTTCAATGTGGTCAGGTCATTTTTGGATGAATTAAAGGCATGTGTGGCTTCTAATGATATTGAAG
GCATTGTGTGCCTCACGGCTGCTGTGCATATTATCCTGGTTATTAATGCAGGTAAACATAAAAGCTCAAAAGTGA
GGGAGGTTGCAGCCACTGTTTCACAGAAAACATAAGACATTTCATGGAAATTACTTTGGAAGAGGATAGCATTGAAA
GATTTCTCTATGAATCATCATCAAGAACTCTGGGAGAACTTTTGAATTCATAACCAAGCCAACATCTCCAGACAT
GTAAAAATAGGGAAAAGTGATTCAAATTGAAATGCCTGTGTATTTTCTATTGTTTTTAAATGTTAATAACCCATA
TAATAGGGAAAGGGTGGGATTTTTTGTGGGAATGTGGGAAGGTGGGGTTATGGAGGAGATAACTCAAACTTC
TTCAATTTTGCCTAGTGCCTGCGTAAATAATATATTTAATATAAAGGACTCCAGGTATAAATGGTGTAGAAATCC
ATGATTCCAAGAAAAACACTTTTCTAGCAAACCTGGTTGTTTTTAAATGACTTTTATATATGTAATATTGCTT
GGAACTATGAGTAATAAAGCAATGACAACAAAAAAAAAAAAAAAAA

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FIGURE 2468

MLLECFINININYIKKEEGRRFLSCLFNWNINFIKMIHGTIKNQLOGLQKSLMVYIAEITYFRAWKKASGKILEAIEN
DCIQDFMFHGIHLPRRSPVHSHKVRVLSYFHHQKKVRQGEEMLYRLYKPIILWRGLKARNSEVRSNAALLFVEAF
PIRDPNLHAIEMDSEIQKQFEELYSLLEDPYPMVRSTGILGVCKITSKYWEMMPPTILIDLLKKVTGELAFDTSS
ADVRCVSVFKCLPMILDNKLSHPLLEQLLPALRYSLHDNSEKVRVAFVDMLLKIKAVRAAKFWKICPMEHILVRLE
TDSRPVSRRLVSLIFNSFLPVNQPEEVWCERCVTLVQMNHAAARRFYQYAHEHTACTNIAKLIHVIRHCLNACIQ
RAVREPPEDDEEEDGREKENVTVLDKTLVNDVACMAGLLEIIIVILWKSIDRSMENNKEAKLYTINKFASVLPEY
LKVFKDDRCKIPLFMLSFMFASAVPPFSCGVISTLRSREEGAVDKSYCTLLDCLCSWGQVGHILELVDNWLPT
HAQAKSNTASKGRVQIHDTRPVKPELALVYIEYLLTHPKNRECLLSAPRKKLNHLLKALETSKADLESLLQTPGG
KPRGFSEAAAPRAFGHLHCRSLIHLQHKFCSEGVYLSMLEDTGFWLESKILSFIQDQEEDYLKLHRVIYQQIIQT
YLTVC KD VVMVGLGDHGFQMQLLQRS LGIMQTVKGFFYVSLLLDILKEITGSSLIQKTDSD EEVAMLLDTVQKVF
QKMLECIARSFRKQPEEGLRLLYSVQRPLHEFITAVQSRHTDTPVHRGVLSTLIAGPVVEISHQLRKVSDVEELT
PPEHLSDLPPFSRCLIGIIKSSNVRSFLDELKACVASNDIEGIVCLTA AVHIIILVINAGKHKSSKVVREVAATV
HRKLKTFMEITLEEDSIERFLYESSRTLGE LLNS

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FIGURE 2469

CGGGACGGAGGGGGCGGCCCCCGCGCTCGGGGCGCTCGGCTACAGCTGCGGGGCCGAGGTCTCCGCGCACTCGC
TCCCGGCCCATGCTGGAGGCGGCGGAACCGCGGGGACCTAGGACGGAGGCGGCGGGCGCTGGGCGGCCCCCGGCA
CGCTGAGCTCGGGATGCGGACGCTGCTGCCTCCCGCGCTGCTGACCTGCTGGCTGCTCGCCCCCGTGAACAGCAT
TCACCCAGAATGCCGATTTTCATCTGGAAATACAGGAGGAAGAAACAAAATGTGCAGAGCTTCTGAGGTCTCAAAC
AGAAAAACACAAAGCCTGCAGTGGCGTCTGGGACAACATCACGTGCTGGCGGCCTGCCAATGTGGGAGAGACCGT
CACGGTGGCCTGCCAAAAGTCTTCAGCAATTTTACAGCAAAGCAGGAAACATAAGCAAAAACGTACGAGTGA
CGGATGGTCAGAGACGTTCCAGATTTTCGTCGATGCCTGTGGCTACAGCGACCCGGAGGATGAGAGCAAGATCAC
GTTTTATATTCTGGTGAAGGCCATTTATACACTGGGCTACAGTGTCTCTCTGATGTCTCTTGCAACAGGAAGCAT
AATTCTGTGCCTCTTCAGGAAGCTGCACTGCACCAGGAATTACATCCACCTGAACCTGTTCTCTGTCCTTCATCCT
GAGAGCCATCTCAGTGTGGTCAAGGACGACGTTCTCTACTCCAGCTCTGGCACGTTGCACTGCCCTGACCAGCC
ATCCTCCTGGGTGGGCTGCAAGCTGAGCCTGGTCTTCTGTCAGTACTGCATCATGGCCAACTTCTTCTGGCTGCT
GGTGGAGGGGCTCTACCTCCACACCCTCCTGGTGGCCATGCTCCCCCTAGAAGGTGCTTCTGTCCTACCTCCT
GATCGGATGGGGCCTCCCCACCGTCTGCATCGGTGCATGGACTGCGGCCAGGCTCTACTTAGAAGACACCGGTTG
CTGGGATACAAACGACCACAGTGTGCCCTGGTGGGTCATACGAATACCGATTTTAATTTCCATCATCGTCAATTT
TGTCTTTTTATTAGTATTATACGAATTTTGCTGCAGAAGTTAACATCCCCAGATGTCGGCGGCAACGACCAGTC
TCAGTACAAGAGGCTGGCCAAGTCCACGCTCCTGCTTATCCCGCTGTTTCGGCGTCCACTACATGGTGTGTTGCCGT
GTTTCCCATCAGCATCTCCTCCAAATACCAGATACTGTTGAGCTGTGCCTCGGGTCGTTCCAGGGCCTGGTGGT
GGCCGTCTCTACTGTTTCTGAACAGTGAGGTGCAGTGCGAGCTGAAGCGAAAATGGCGAAGCCGGTGCCCGAC
CCCGTCCGCGAGCCGGGATTACAGGGTCTGCGGTTCCTCCTTCTCCCGCAACGGCTCGGAGGGCGCCCTGCAGTT
CCACCGCGGCTCCCGCGCCAGTCTTCTGCAAACGGAGACCTCGGTTCATCTAGCCCCACCCCTGCCTGTGCGGA
CGCGGCGGGAGGCCACGGTTCGGGGCTTCTGCGGGGCTGAGACGCCGGCTTCCTCCTTCCAGATGCCCGAGCAC
CGTGTGCGGCAGGTCAGCGCGTCTGACTCCGTCAAGCTGGTTGTCCACTAAACCCCATACCTGG

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FIGURE 2470A

GTGAACCGTGATGTGAGGGATCTAGGTTGCGCTATCCTTATGAGAATCTAATACCTATTGATCTGTCACTTTCT
CCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACACGCCCAGTATTCTACATTATGCTC
CTACCTCCCAGCAGCCTCTCCAGGCCCAGAAGCTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAAT
GGCCTATTTAGGCCCATACCTACCTCACGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAG
GCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAAGTT
TCTCAAGTCGACCTCACCAGGCCCAGCTCATGCTTCTTTGAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGG
CACCTCCAGGCCCAGCCTCTGCCTCCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGC
CCAGCATCTGCCTCACTGTGGACCCCCCAAGCCAAGCTCCCAACCTTTTCAGCAGCTTCTACACACCCAACTCCTG
CCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTACAAGGGCCTTTCCAGGCTCAACTTTTGTCTCATGGCAA
CCTTTCTGGCCAGATTCTGCCTGTCTCCAGCAGCCTAGACAGGCCCAGGTCTTGCCTCACACTGGCCTCTCT
ACATCCAGCTCATGCCTCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCAGGACGTATCTCCGGGCCCAAAAC
TTACTCAAGTCAGACTCTCTAGTCCCAACTGCTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTGG
ACCTCTCCAGGCCCAGCTCCTGCCTCCTGTGAGCGTCTACAGGCCCAACCTCTGCCTCATGGGGGCTTCTCCAGG
CCCACCTCTTCTCTTGGCTGGGTCTACAGGCACAAGTGTGCCTCACAACAGCCTTTTTTGGCCCCAGTTCTCT
CCAGCTCATGGCGGCCAATGTAGGCCCAAACTTCTCAAGTCAAACTCTCCAGGCCACCTTCTGCTTCCCGGT
GGCATGAACAGGCCCAGCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGCTCTTGCCTCCCAGGGGCTTTTTCCA
GACCCAGCTCCTGCCTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAG
CTCCTCCCTCACAGTGGCCCATTTAGGCCCAACTCATGACTGTGGGCCATTTCCAGGCCCTAGTGCCTGCCTCGT
GGCTGACTCTTGAAGGCCCAAACTTCTCAAAATCAGCCTTTTGCCCAACTTCTGTCTACTGTGCGACTCTACAGG
CCAGCCTCTGCCTCACAGTGGACCTCCAGACCCAGATGGTGTCTACTGTGGCATCCTCAGGCCAAGCTCCTGC
CTTTCCGCAGCCTCTACAGGCCCAGCTCCTGCCTTGCAGTGGCCTCTTTAGGCCAAGCTCATGCCCCATGGCGAC
TTTTCCAGGCACAGCTTTTGCCTTTTGCAGCCTGTCCAGGCCCAGAATGTCCTTAAGTCCGGCATCTCCAGGATGA
GCTCATCCTCCCAGTGGCTCTACAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGGCCAACTCCTGCTGAGC
TGCTGGCAGCCTCTGTAGGCCACAGAATTCTTAAGGTAAAGCTTTCCAGGCCACCTTTGGCCTCCCGGCAGGCT
CAGCAATCAAACTATTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACGGCATCCTCCGAAAAC
TGAGCATTGCTCACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCCAGGCAGCTGCTGCCTCACAATGG
TCTCTTTAGGCCCAGCTCATGCTAAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGC
CCAAATTTCTCCAAAAGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTGCGCTTACACAGGCCCAGACTCTTAC
CACACAGTAGACCTCCAGGCCCAACCACTTGCTGATCATAGCCTCCTAAGGCCAAGCTCCTGCCTTTCCGGCAGC
CTCTACAGGCCAAGCTCCTGCCTCGCAATTGCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCC
TAACTTTTGCTTTTGTAGCGATACTCCAGTCCCAAACTTCTCCAGTCAGCCGGTCCAGGCCAAGCTCTTCTC
CCAAAGGCTTCTGCAGGCCAAATCATCCTGAAGTCAACCTCTGCAGGCGCAGCTCCTGCCTCCAAGTGTGTGT
AGGCCAAGCTAATGCCTCACAGCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAAC
TTACTCCAGTTGGCCTCTCCAGACCAAGCTCTCCCTCCCAGTGGCCTCTACAGGCCAAAATTGTCTCAGGTCAG
CCTCTCCAGGGCCAACCTCCTAGCTACCGGTGGCTTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTACACC
CAGCTCTTGCCTCTGAGTGGCCTCTCCAGGAGCAAACTTTCTCAAGTCGGCCTCTCCAGGCCCAGCCTCCTGCT
TCCCGAGGGCATGTACAGGCCCAGCCTCTGCCTCACAGCAGACTCTTACACCCAGCTCTTCCCTGTCTGCGGCC
TCTCCAGTCCAAAGCTGCTCCTGCCTTTTGGCAGCTTGTACAGGCCCAGCTCCTCCCTCACGGTGGCCTCTTTCCG
GCCCAACTCATGCCTCTTGAACGTGCCCAAGTGTGAGCTCCTGCCTCACACTGGCCTGTTGAGGCCCAGCTCAT
GCCTCTCGTGGCCTCAACGGGGCCATCCCTGCCTGTGCGCGGCCCTCTACAGGCCCGGCCCTCTACCTCACAGTGG
GCTCTCCAGGCCACCTCTTCTCACCGTGGCCTCCTGGGGCAATGCTCCTCCCTCTCGGGAGCCTCTGTGGGCC
CAGCTCCTGCCTCCCAGTGGCCTCTGCTGGCCAAGCCGTGCCTCAGGGCAGCCTTTCCAGGCCCTAGCGTTTGTCT
GCTTTGCATCCTCTCCAGGCCCTGGACTTCTCCAGTCGGCCTCTCCAGGCCCAGCTCTTCTCTCGGCGGCCCTC
TGCAGGCCCAGACTGTGCTCAAGTCGGCCTGTCCAGGGCCAGCTCCTGCCTCCCGGGCGGCCCTCTGCAGGCCCAAG
TCGTCCTCAAGTTGGCCTCCCCAGGCCCAGCAACGGCCTCTCGGCGGCCCTTTCCGGGTGCAAAAGTTCTCGAGT
CAGCCTCTCCAGGCCCAGCTCCTCCTGCCTCCCAGTGGCCTCTTTCCGGGCCAGGCCAGCTCATGCCTCCCGGCGG
CCTTCCAGGCCCTGCTTTTGAATTTGGTGGCCTCTGCAGGCCCTGACAAGGCCAGGCCCTCCTGCCTCCCAAG
GCCTGCACAGGCCCAGCCTCTGCCTCACAGCAGACTCTCCACGCCCAGCTAGCTCTGCCTCACTGCGGCTTCCC

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FIGURE 2470B

GAGTCCAAAGCTCCTGCCTCTCAGCCGCTTCGGCAGGCCCCAGCTCCCGCCTGCCAGTGGCCTCTTCAGGCCCATG
GGGCTCATTCTCACAACGGCCTTTCCAGGCCCCAGTTTTTCCCTTCGGCGGCCTCTTGGCCTCTAATTGTTTA
TCTTTGGGTATAAATCCCAAATATTGAATTTTGAATATTTCCACCATT

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FIGURE 2471

TCTAATACCTATTGATCTGTCACCTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAAATAATGGAAATA
AAGTGCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCTACCTCAC
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACCTTTCTCAAGTCGACCTCACCAGGCCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCAGCCTCTGCCTCCCGT
CGGCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCAGCTCC
TCCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCGCTTTTGA
CTTTTGGCGGCCTCTTCAGGCC

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FIGURE 2472

TCTAATACCTATTGATCTGTCACCTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA
ACACGCCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA
AAGTGCCTAATAAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCAG
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCTACGTCAC
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCAGCTC
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGT
CGGCCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCAGCATCTGCCTCACTTGGACCCTCCAG
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCAGCTCCT
CCTGCCTCCCAGTGGCCTCTTTCGGCCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA

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FIGURE 2473

ATGTTGCCAATAACACAGATGAAGAGACTGGGGGATGGCACTATCACTGCTGCTGTACTGAAGGTTAGCAAAGGT
GCTAATCCAGTGGAAATCAAGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTCT
AAACCTGTGACCAAACCTGAAGAAATTGCACAGGTTGCTACAATTTCTGCAAATGGAGACAAAGAAATTGGTAAC
ATCATCTCTGATGCAATGAAAAAGTTTGAAGAAAGGGCATCATCAAAAAATTTCTAGTGTCCAGTCCATTGTA
ACTGCTCTTGAAATTGCCAATGCTTACTGTAAGCCTTTGGTCATAATTGCTGGAGACATTGATGGAGAAGCTCTA
ACTACACTCATCCTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAAGCTCCAGGGTTTGGTGACAAT
AGAAAGAACCAGCTTAAAGATACGGTTATTGCTACTGGTGGAGAAGTTGGAGAGGTCACTGTGATCAAAGATTAT
GCCATGCTCTTAAAAGGAAAAGGTAACAAGTCTCAAATTGAAAAATGTGTTCAAGAAATCATTGACCAGTCAGAT
GTCACAAGTGTGAATACGAAAAGGAAAACTGAGTGGAGAACTTTTCAGATGGAGTAGCTGTGCTGAAGCTAAT
GAAGATAAAATAATTGGTATAGAAATTATTTAAAAGAACTCAAAATTCAGCAATGACAATTGCTAAGAATGCA
GGTGTGATGGATTTTGTAGTTGAGAAAATTATGTAA

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FIGURE 2474

MLPITQMKRLGDTITA AVLK VSKGANPVEIKRGVMLAVDAVIAELKKQSKPVTKPEEIAQVATISANGDKEIGN
IISDAMKKFGRKGIITKISSVQSIVTALEIANAYCKPLVIIAGDIDGEALTTLILNRLKVGLQVVAVKAPGFGDN
RKNQLKDTVIAATGGEVGEVTVIKDYAMLLKGKGNKSQIEKCVQEIIDQSDVTTSEYEKEKLSGETFRWSSCAEAN
EDKIIGIEI IKRTLKIPAMTI AKNAGVDGFLIVEKIM

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FIGURE 2475

ATGTACTGGGACATCGTGTCTTTGGAGACAGCTATACCCCACCTTGTCCATTCTGCTGAGGCCCACAAATGCCATC
ACCCAGAAGCCCTTCACATCCACTGGGGCCACAGCAGGATACAGTCTGTTGCTGGTCCAGCAGCCTGATAAAATC
ATTGTCCTCTCCACCCTGATTCCCTACAGGAGACTACTCACCCATAACCTCAAAAACCTCTTCATGAGGATGGTG
ACCCAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTC
CAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGGTTGTTCCCTT
GCATGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGCG
TGCAATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTGA

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FIGURE 2476

CTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCCTGCCTAGCTAGAGGATCTGTGACCC
CAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACTCCAGG
CAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCCAGAAGTGTTGTTTCCCTTGCAT
GGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGCCTGCTATTGCAGAATACCAGCGTGCA
TTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGCTTGCAGAA
AAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTCAATTT
CCTTTCCTCATCCCAAATAAATGCCTTGGTACAAGAAAAG

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FIGURE 2477

MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHGSRKNMACYCRIPACIA
GERRYGTCTIYQGRLWAFCC

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FIGURE 2478

CCTTGCTATAGAAGACCTGGGACAGAGGACTGCTGTCTGCCCTCTCTGGTCACCCTGCCTAGCTAGAGGATCTGT
GACCCAGCCATGAGGACCCTCGCCATCCTTGCTGCCATTCTCCTGGTGGCCCTGCAGGCCCAGGCTGAGCCACT
CCAGGCAAGAGCTGATGAGGTTGCTGCAGCCCCGGAGCAGATTGCAGCGGACATCCAGAAGTGGTTGTTCCCT
TGCA TGGGACGAAAGCTTGGCTCCAAAGCATCCAGGCTCAAGGAAAAACATGGACTGCTATTGCAGAATACCAGC
GTGCATTGCAGGAGAACGTCGCTATGGAACCTGCATCTACCAGGGAAGACTCTGGGCATTCTGCTGCTTGAGCTTG
CAGAAAAAGAAAAATGAGCTCAAAATTTGCTTTGAGAGCTACAGGGAATTGCTATTACTCCTGTACCTTCTGCTC
AATTCCTTTCCTCATCTCAAATAAATGCCTTGTTAC

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FIGURE 2479

MRTLAILAAILLVALQAQAEPLQARADEVAAAPEQIAADIPEVVVSLAWDESLAPKHPGSRKNMDCYCRIPACIA
GERRYGTCTIYQGRLWAFCC

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FIGURE 2480

ATGCAGGTCTGCAACTGCAGGTGCCTCTCACCTGGTGACCTGCAGGAAGATGGAGGAGCATATTGGGCACAGTGC
TCGGTTTGGGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCATAGAGTGTGCCCTCTGGCCCAGCTG
ATGGACAGTGAGACGGACATGGTGCGGCAGATCCGGGCTATAGACAGCGACATGCAGACCCTGGTCTATGAGAAC
TACGACAAGGAGACTATCGGGGTGCAACCTGGCTGGGGCGGGGAGGAGGTGCAGGGCCTGGCCAGAGCGGGCCTG
GCCACGGGCAAGGGACAGCGACCGCCTGGGCCAGGACAGGTGAGAGCGGCGCAGTCCCGGGCCCCGGCGTGTCCGC
GCTGCGCGGGAGAGGCCAGCAGAGGGCGCCAGAGAGCCAGGAGCGGCCCCGCGAGGAGCCCCGCGCCAGCCGGATG
CCCAGCTCCGCGCCGCGCGGACCCAACGAGCCCGCGCTCAGACGCCCCAGCTCCGCGAGAGGCCGCTCGCGCCG
GGCAGAGCCCCTGGAGCCATGGCCAGCCCTTCCGGCAGCTCCGAAGCCACTGGCAAGCCCCGAGGCAGGGATGGC
CGGCCCAGGAGGGAGGAGGACGACGTCCCTCCCGAAGAGAAGAGGCTACGGCTGTTGCTGGAGGGGGGAAGCGCA
CAGCCCAGGACTGCGAGGACGGGGAGGACGCGCTGCGGCCGGGCAGGGAGGAGACCGGCACCTAG

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FIGURE 2481

MQVCNCRCLSPGDLQEDGGAYWAQCSVWGAHFDPEVYLDKLRVCPLAQLMDSETDMVRQIRAIIDSDMQTLVYEN
YDKETIGVQPGWGGEVQGLARAGLATGKGQRPPGPGQVRAAQSRARRVRAARERPAEGAREFGAARGGARASRM
PSSAPRGPNEPALRRPSSAERPLAPGRAPGAMASPSGSSEATGKPRGRDGRPRREDDVPPEEKRLRLLEGGSA
QPEDCEDGEDALRPGREETGT

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FIGURE 2482

GAGAGTCGCGCCCCGGGAGTCCGCCGCCCTGCGCCAGGATGGAGTTCGTGAAATGCCTTGGCCACCCCGAAGAGTTC
TACAACCTGGTGCGCTTCCGGATCGGGGGCAAGCGGAAGGTGATGCCAAGATGGACCAGGACTCGCTCAGCAGC
AGCCTGAAAACCTTGCTACAAGTATCTCAATCAGACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGG
GAAATGCGCAACGCAGTGTGCATATTTTATCTGGTTCTCCGAGCTCTGGACACACTGGAAGATGACATGACCATC
AGTGTGGAAAAGAAGGTCCCGCTGTTACACAACCTTTCACCTCTTTCCTTTACCAACCAGACTGGCGGTTTCATGGAG
AGCAAGGAGAAGGATCGCCAGGTGCTGGAGGACTTCCCAACGATCTCCCTTGAGTTTAGAAAATCTGGCTGAGAAA
TACCAACAGTGATTGCCGACATTTGCCGGAGAATGGGCATTGGGATGGCAGAGTTTTTGGATAAGCATGTGACC
TCTGAACAGGAGTGGGACAAGTACTGCCACTATGTTGCTGGGCTGGTCGGAATTGGCCCTTCCCGTCTTTTCTCA
GCCTCAGAGTTTGAAGACCCCTTAGTTGGTGAAGATACAGAACGTGCCAACTCTATGGGCCTGTTTTTGCAGAAA
ACAAACATCATCCGTGACTATCTGGAAGACCAGCAAGGAGGAAGAGAGTTCTGGCCTCAAGAGGTTTGGAGCAGG
TATGTTAAGAAGTTAGGGGATTTTGCTAAGCCGGAGAATATTGACTTGGCCGTGCAGTGCCTGAATGAACCTTATA
ACCAATGCACTGCACCACATCCCAGATGTCATCACCTACCTTTCGAGACTCAGAAACCAGAGTGTGTTTAACCTC
TGTGCTATTCCACAGGTGATGGCCATTGCCACTTTGGCTGCCTGTTATAATAACCAGCAGGTGTTCAAAGGGGCA
GTGAAGATTGCGAAAGGGCAAGCAGTGACCCTGATGATGGATGCCACCAATATGCCAGCTGTCAAAGCCATCATA
TATCAGTATATGGAAGAGATTTATCATAGAATCCCCGACTCAGACCCATCTTCTAGCAAAACAAGGCAGATCATC
TCCACCATCCGGACGCAGAATCTTCCCAACTGTCAGCTGATTTCCCGAAGCCACTACTCCCCCATCTACCTGTCTG
TTTGTCTATGCTTTTGGCTGCCCTGAGCTGGCAGTACCTGACCACTCTCTCCAGGTAACAGAAGACTATGTTTCTCAG
ACTGGAGAACACTGATCCCAAATTTGTCCATAGCTGAAGTCCACCATAAAGTGGATTTACTTTTTTCTTTAAGG
ATGGATGTTGTGTTCTCTTTATTTTTTCTTACTACTTTAATCCCTAAAAGAACGCTGTGTGGCTGGGACCTTTA
GGAAAGTGAAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGGTGCCTCATCCCAGCAACCTGTCTTGTG
GGTGATGATCACTGTGCTGCTTGTGGCTCATGGCAGAGCATTGAGTCCACGGTTTAGGTGAAGTCGCTGCATAT
GTGACTGTCATGAGATCCTACTTAGTATGATCCTGGCTAGAATGATAATTAAAAGTATTTAATTTG

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FIGURE 2483

TCCGGCAACGCCAACCGCTCCGCTGCGCGCAGGCTGGGCTGCAGGCTCTCGGCTGCAGCGCTGGGCTGGTGTGCA
GTGGTGCACCACGGCTCACGGCAGCCTCAGCCACCCAGATGTAAGCGATCTGGTTCCACCTCAGCCTCCCGAG
TAGTGATCTAGGATCCGGCTTCCAACATGTGGCAGCTCTGGGCCTCCCTCTGCTGCCTGCTGGTGTGGCCAAT
GCCCCGAGCAGGCCCTCTTTCCATCCCCTGTGCGATGAGCTGGTCAACTATGTCAACAAACGGAATACCACGTGG
CAGGCCGGGCACAACCTTCTACAACGTGGACATGAGCTACTTGAAGAGGCTATGTGGTACCTTCCTGGGTGGGCC
AAGCCACCCAGAGAGTTATGTTTACCGAGGACCTGAAGCTGCCTGCAAGCTTCGATGCACGGGAACAATGGCCA
CAGTGTCCCACCATCAAAGAGATCAGAGACCAGGGCTCCTGTGGCTCCTGCTGGGCCTTCGGGGCTGTGGAAGCC
ATCTCTGACCGGATCTGCATCCACCAATGCGCACGTGAGCGTGGAGGTGTGCGCGGAGGACCTGCTCACATGC
TGTGGCAGCATGTGTGGGGACGGCTGTAATGGTGGCTATCCTGCTGAAGCTTGGAACCTTCTGGACAAGAAAAGGC
CTGGTTTTCTGGTGGCCTCTATGAATCCCATGTAGGGTGCAGACCGTACTCCATCCCTCCCTGTGAGCACCACGTC
AACGGCTCCCGCCCCCATGCACGGGGGAGGGAGATACCCCCAAGTGTAGCAAGATCTGTGAGCCTGGCTACAGC
CCGACCTACAAACAGGACAAGCACTACGGATACAATTCTACAGCGTCTCCAATAGCGAGAAGGACATCATGGCC
GAGATCTACAAAAACGGCCCCGTGGAGGGAGCTTTCTCTGTGTATTTCGGACTTCCTGCTCTACAAGTCAGGAGTG
TACCAACACGTACCCGGAGAGATGATGGGTGGCCATGCCATCCGCATCCTGGGCTGGGGAGTGGAATGGCACA
CCCTACTGGCTGGTTGCCAACTCCTGGAACACTGACTGGGGTGACAATGGCTTCTTTAAATACTCAGAGGACAG
GATCACTGTGGAATCGAATCAGAAGTGGTGGCTGGAATTCCACGCACCGATCAGTACTGGGAAAAGATCTTAATCT
GCCGTGGGCCTGTCTGCCAGTCTTGGGGGCGAGATCGGGGTAGAAATGCATTTTATTCTTTAAGTTCACGTAAG
ATACAAGTTTCAGACAGGGTCTGAAGGACTGGATTGGCCAAACATCAGACCTGTCTTCCAAGGAGACCAAGTCCT
GGCTACATCCCAGCCTGTGGTTACAGTGCAGACAGGCCATGTGAGCCACCGCTGCCAGCACAGAGCGTCTCTCCC
CCTGTAGACTAGTGCCGTAGGGAGTACCTGCTGCCCCAGCTGACTGTGGCCCCCTCCGTGATCCATCCATCTCCA
GGGAGCAAGACAGAGACGCAGGAATGGAAAGCGGAGTTCCTAACAGGATGAAAGTTCCCCCATCAGTTCCCCCAG
TACCTCCAAGCAAGTAGCTTTCCACATTTGTACAGAAATCAGAGGAGAGACGGTGTGGGAGCCCTTTGGAGAA
CGCCAGTCTCCCAGGCCCTGCATCTATCGAGTTTGCAATGTCACAACCTCTCTGATCTTGTGCTCAGCATGAT
TCTTTAATAGAAGTTTTATTTTTTCGTGCACTCTGCTAATCATGTGGGTGAGCCAGTGGAACAGCGGGAGACCTG
TGCTAGTTTTACAGATTGCCTCCTTATGACGCGGCTCAAAAGGAAACCAAGTGGTCAGGAGTTGTTTTCTGACCCA
CTGATCTCTACTACCACAAGGAAAATAGTTTAGGAGAAACCAGCTTTTACTGTTTTTGAAAAATTACAGCTTCAC
CCTGTCAAGTTAACAAGGAATGCCTGTGCCAATAAAAGTTTTCTCCAACCTGA

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FIGURE 2484

MWQLWASLCCLLVLANARSRPSFHPLSDELVNYVNKRNTTWQAGHNFYNVDMSYLKRLCGTFLGGPKPPQRMFT
EDLKLPASFDAREQWPQCPTIKEIRDQSGSCSWAFGAVEAISDRICIHTNAHVSVEVSAEDLLTCCGSMCGDGC
NGGYPAEAWNFWTRKGLVSGGLYESHVGC RPYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHY
GYNSYSVSNSEKDIMAETIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGGHAI RILGWGVENGTPYWL VANSW
NTDWGDNGFFKILRGQDHC GIESEVVAGIPRTDQYWEKI

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FIGURE 2485

CTGGGAAGCAGAGTGTCTGGATGGAACCTGAGCTGGGTCTCTGACTCACTTCTGACTTTAGTTTTTTCAAGGGGG
AACATGGCAAAGGTGTTTCAGTTTCATCCTTGTTACCACCGCTCTGATAATGGGCAGGGAAATTCGXXXXXXXXXX
XX
XX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXAGATTTTCAATGATGGGTATAAGCTCAGTGGATTTTACAAAATC
AAACCTCTCCAGAGCCTAGCAGAATTTCTGTTTATTGTGACATGTCCGATGGAGGAGGATGGACTGTAATTCAG
AGACGATCTGATGGCAGTGAAAACCTTTAACAGAGGATGGAAAGACTATGAAAATGGCTTTGGAAATTTGTCCAA
AAACATGGTGAATATTGGCTGGGCAATAAAAAATCTTCACTTCTTGACCACTCAAGAAGACTACACTTTAAAAATC
GACCTTGCAGATTTTGAaaaaaATAGCCGTTATGCACAATATAAGAATTTCAAAGTTGGAGATGAAAAGAATTC
TACGAGTTGAATATTGGGAATATTCTGGAACAGCTGGAGATTCCCTTGCGGGGAATTTTCATCCTGAGGTGCAG
TGGTGGGCTAGTCACCAAGAATGAAATTCAGCACGTGGGACAGAGATCATGACAACCTATGAAGGGAAGTGCSCA
GAAGAAGATCAGTCTGGCTTGTGGTTTAACAGGTGTCACTCTGCAAACCTGAATGGTGTATACTACAGCGGCCCC
TACACGGCTAAAACAGACAATGGGATTGTCTGGTACACCTGGCATGGGTGGTGGTATTCTCTGAAATCTGTGGTT
ATGAAAATTAGGCCAAATGATTTTATTCCAAATGTAATTTAAATTGCTGCTGTTGGGCTTTCGTTTCTGCAATTCA
GCTTTGTTTAAAGTGATTTGAAAAATACTCATTCTGAACATATCCATGCGCAATCATGATAACTGTTGTGAGTAG
TGCTTTTCATTCTTCTCACTTGCCTTTGTTACTTAATGTGCTTTCAGTACAGCAGATATGCAATATTCACCAAAT
AAATGTAGACTGTGTT

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FIGURE 2486

MAKVFSFILVTTALIMGREISXXX
XXXXXXXXXXIFNDGYKLSGFYKIKPLQSLAEFSVYCDMSDGGGWTVIQRRSDGSENFNRGWKDYENGFGNFVQK
HGEYWLGNKNLHFLTQEDYTLKIDLADFEKNSRYAQYKNFKVGDEKNFYELNIGEYSGTAGDSLGNFHPFVQW
WASHQRMKFSTWDRDHDNYEGNCAEEDQSGLWFNRCHSANLNGVYYSGPYTAKTDNGIVWYTWGWWYSLKSVVM
KIRPNDFIPNVI

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FIGURE 2487

GGGACAGAGGAGACAAGATGGCGCTGCGGGCGATGCGGGGGATTGTCAACGGGGCCGCACCCGAGCTACCCGTGC
CCACCGGTGGGCGCGGTGGGAGCTCGGGAGCAGGCGCTGGCAGTCAGTCGGAACTACCTCTCCAGCCTCGCC
TCACATACAAGACAGTATCTGGAGTCAATGGTCCACTAGTGATCTTAGATCATGTTAAGTTTCCCAGGTATGCTG
AAATTGTCCATTTGACCTTACCGGATGGCACAAAGAGAAGTGGGCAAGTTCTGGAAGTTAGTGGTTCCAAGGCAG
TAGTTCAGGTATTTGAAGGGACTTCAGGTATAGATGCTAAGAAAACGTCCTGTGAGTTTACTGGGGATATTCTCC
GAACACCGGTGTCTGAGGATATGCTTGGTTCGGGTATTCAATGGATCGGGAAAACCCATTGACAGAGGTCCTGTTG
TACTGGCCGAAGACTTCCTTGATATCATGGGTGAGCCAATCAACCCTCAATGTGCAATCTACCCAGAGGAAATGA
TTCAGACTGGCATTTCGGCCATCGATGGGATGAACAGTATTGCTAGGGGGCAGAAAATTCCTATCTTCTCTGCTG
CTGGGCTACCACACAATGAGATTGCAGCTCAGATCTGTGCGCCAGGCTGGTTTTGGTAAAGAAATCCAAAGATGTAG
TAGACTACAGTGAGGAAAATTTTGCAATTGTATTTGCTGCTATGGGTGTAAACATGGAAAATGCCCGTTCTTCA
AATCTGACTTTGAAGAAAATGGCTCAATGGACAATGTCTGCCTCTTTTTGAAGTTGGCTAATGACCCAACCATTG
AGCGAATTATCACTCCTCGCCTGGCTCTAACCACAGCTGAATTTCTGGCGTACCAATGTGAGAAACATGTATTGG
TTATTCTAACAGACATGAGTTCTTATGCTGAAGCACTTCGAGAGGTTTTCAGCAGCCAGGGAAGAGGTACCTGGTC
GACGAGGTTTTCCAGGTTACATGTATACAGATTTAGCCACGATATATGAACGCGCTGGGCGAGTGGAAGGGAGAA
ACGGCTCGATTACTCAAATCCCTATTCTAACCATGCCTAATGATGATATCACTCACCCCATCCAGACTTGACTG
GCTACATTACAGAGGGGCAGATCTATGTGGACAGACAGCTGCACAACAGACAGATTTATCCACCTATCAATGTGC
TGCCCTCACTATCACGGTTAATGAAGTCTGCTATTGGAGAAGGGATGACCAGGAAGGATCATGCCGATGTATCTA
ACCAGCTAGTATGCGTGCTATGCTATTGGAAAGGATGTGCAAGCCATGAAAGCTGTCGTTGGAGAAGAAGCCCTT
ACCTCAGATGATCTTCTCTACTTGGAATTTCTGCAGAAGTTTGAGAGGAACCTTCATTGCTCAGGGTCCTTACGAA
AATCGCACTGTCTTTGAGACTTTGGACATTGGCTGGCAGCTACTCCGAATCTTCCCCAAAGAAATGCTGAAGAGA
ATCCCTCAGAGCACCTCAGCGAATTTTACCCTCGAGACTCTGCAAAGCATTAGCTGCTGCTTCTGCATTGCTCC
GCGCTCTTGTGAAATACTGGTTCTGTTTTCTTTATTCTTTTGCCTCTCGGTTCCACCTTTGTGTTGGAGTTT
ACCATGTTACCCTGTAATTAATAAACAAGAAATAGGTAACATATTGTGCCAGTGTTGCAACGTTTTAACTGCTAA
CAGACCTTAAAATATCCCCCTACCTGGGTCCCTCAGTGCTATGTTTAAAGTGCTGCAGGGATGGAGTGGCGTTTTCT
TTATTGCTGTATGTATTGTACATAGTGGAGTAGTTAGTTACCTGATAACAGTCTTGTTATTTGGGTCTCTTAGAC
CTTACCTCTCAACTCCCTCAAGAGTACCAGTCTCTGAAGTTATAATGCTTTGGTCTCTACATTAGGGGCAAGATC
CAGTCTGAGAGAAGTCTCCTTTGAGAAGGGCCAAGAGGCTCTTTCCTGAGTGTTTGCTTTTCGGTTTGTGTTGATG
CCTGTATTGCTGGGCTGTGCTGCTGCTCGAAGCAGATGGTTTTGACTGTCTTTTGTCTCTTCTATATAATGAA
TAGATGAGTGAAAGGAGTTTTCTTTTTCTTTTAGTACTTACGTATTGGGATTCTGTGTCTTACAGCTCTCCCT
CTCCAAATAATACACAGAATCCTGCAACTTTTGCACAGCTGGTATCTGTCTGGTAGCAGTGAGACCCCTTGCT
TGGTGATCCTTACTGGGTTTTCCAAGCAGAGGAGTCACATGATTACAATTGCCAGTAGAGTTGTTGTTTGGGGTAC
AAGATGAGAAGAAAGAAAAACCTACAGCCTTTCTACATTCTGACATGCTAACAGTGGTTTAAAGTTTCTAAAGTGT
TTACCAGATGCTGAAGGCAAGGGGAGGAGCAGAAGCACTTATGTTTACGGATATTTTAACTCTGTTAGAGAGC
AGCCTTTGAAAATCCCCAATTTGGTTCTGCTTTTTGACCTCTCTACCTTTTCAGGGTAATCTTTGTGGCACAA
ACGATAGCATTTCAGCTTTAGAGTTTTCTGAATTC

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FIGURE 2488A

CTGGCCGGGAGGCTGGAGCCCAGCAGCAGCGCGCGCGCGCGCGCTCGTCCCAACTTGCAGGCGCGGAGGGACCC
CTGACATTTCACTAAAATGAGCGTGCTCAGCAGGAAGAGATGTGTTCTCACGCTAGAAGCCACCCCGTCACATG
TAGTGGTGTCCCGTTTAATGGATTCTGACATGGATTATGAAAGGCCAAACGTAGAGACCATCAAGTGC GTTGTGG
TGGGGGACAACGCCGTGGGTAAAGACCAGGCTCATCTGTGCCCCGCGCTTGCAATGCCACCCTCACCCAGTACCAGC
TGCTGGCCACGCATGTGCCACAGTATGGGCCATCGACCAATATCGTGTGTGCCAGGAGGTGCTGGAACGCTCCC
GAGACGTGGTAGATGATGTCAGCGTCTCTCTGCGCCTCTGGGACACCTTTGGAGACCACCACAAAGACCGTCGCT
TTGCTTATGGGAGATCTGATGTGGTGGTTCTGTGCTTCTCCATTGCCAACCCCAATTCCTCCACCATGTCAAGA
CCATGTGGTACCCAGAAATCAAGCACTTCTGCCCCCGAGCACCTGTCATCTTGGTGGGCTGCCAGTTGGACCTGC
GCTACGCTGACCTGGAGGCTGTCAACAGGGCTAGGCGACCCCTTGCTAGGCCCATCAAACCTAATGAAATCCTGC
CCCCAGAGAAGGGTGGGAGGTGGCCAAGGAGCTGGGCATCCCTACTATGAGACCAGCGTGGTGGCCAGTTTCG
GCATCAAGGACGTCTTTGACAACGCCATCCGAGCTGCACTCATCTCCCGCGCCACCTGCAGTTCTGGAAGTCCC
ACCTCCGCAATGTGCAGCGGCTCTGCTGCAGGCACCCCTTCTACCCCCCAAGCCACCGCCCCGATCATCGTGG
TGCCCCGACCCCTCCCTCCAGCAGCGAGGAGTGCCCCGCCCACCTCCTGGAGGACCCGCTCTGCGCGGACGTATCC
TGGTGTCTGCAGGAGCGGGTGC GCATCTTTGCCACAAGATCTACCTCTCCACCTCCTCCTCCAAGTTCTATGACC
TGTTCTCTCATGGACCTGAGTGAGGGGGAGCTGGGGGGCCCCCTCGGAGCCAGGGGGCACCACCCAGAGGACCACC
AGGGCCACTCTGATCAACACCACCACCATCACCACCACCACCATGGGCGAGACTTCTGCTCCGAGCAGCCAGCT
TTGACGTGTGCGAGAGCGTGGATGAGGCTGGGGGCTCCGGTCTGCTGGCCTCCGTGCTTCCACCAGCGACGGGA
TCTTACGGGGCAACGGAACAGGGTACCTACCGGGCAGGGGTCTGTGTCTTCTTCTGGAGCCGAGCTTTTGTGA
GCATCCAGGAAGAGATGGCAGAAGATCCTCTCACCTACAAATCCCGGCTGATGGTGGTGGTGAAGATGGACAGTT
CCATCCAGCCGGGGCCCTTCCGGGCTGTCTCAAGTACCTGTACACGGGGGAGCTAGATGAGAACGAGCGTGACC
TCATGCACATTGCCACATTGCTGAGCTGCTCGAGGTCTTTGATCTGCGCATGATGGTGGCCAACATTCTCAACA
ATGAGGCCTTCATGAACCAGGAGATCACCAAGGCCTTCCACGTCCGCCGACCAACCGGGTTAAGGAGTGCTTGG
CAAAGGCACCTTCTCAGATGTGACCTTCATCTGGATGATGGCACCATCAGCGCCACAAGCCCCGTGTGATTT
CCAGCTGTGACTGGATGGCTGCCATGTTTGGGGGGCCATTTGTGGAGAGCTCCACCCGGGAGGTGGTGTTCCT
ACACAAGCAAGAGCTGCATGCGGGCCGTGCTGGAATACCTCTACACCGGCATGTTACCTCCAGCCCCGACCTGG
ATGACATGAAGCTCATATTCTAGCCAACCGCTCTGCCTGCCACACCTGGTTGCCCTCAGAGCAGTACACAG
TGACCGGGCTGATGGAAGCGACCCAGATGATGGTGGACATCGATGGGGACGTCCTTGTGTTCTTGGAACTGGCTC
AGTTCCACTGTGCGTACCAGCTGGCCGACTGGTGTCTCCACCACATCTGCACCAACTACAACAACGTGTGCCGCA
AGTTCCCCCGAGACATGAAGGCCATGTCCCCAGAAAACCAGGAGTATTTGAGAAGCATCGGTGGCCACCTGTGT
GGTACCTGAAGGAGGAAGATCATTACCAGCGGGCACGGAAGGAGCGTGAGAAGGAGGACTACCTCCACCTCAAGC
GGCAGCCCAAACGGCGTTGGCTCTTCTGGAACAGTCCATCCTCCCCGTCTTCTCGGAGCCCTCCTCCTCATCCC
CATCTTCTCCTCGGCTGTGGTCTGAGATGCTGCCACCCCTCTTCTGACCCTGCTGCTGTGTTGTCCCCATCCGCCTT
CACCCCTCTGCTCTTCCGCATCACCCCATCCACCTTACAGGACCAGGGGGCCACGTAACCAGGACCCAGAGGG
TGGAGCTCTTCTTACCAGCCACCGTGGCTCAGCCAGAGAGGAGCTGAGCCCTGTGGAGCAGAACGGGAACCACT
GCAGAGGTCCCCAGACCCAAAGCAGGACGGGAGACAACCTGCTTGGAGGAGCGAAGAGCCCTGGCATTATCTCT
GGGTTTGAGAGCCCTAGAGTCAAAGGGAAAGCCTCCAGCCCTCCAGGGCTTCTCTGTGTCTTGGTTGTGCTC
TGGCCAGGGAGGCAGCCCCACTCCCAGCAAGCAGAAGTGATCCTCGAGGGTCTTCCCTGTTGGCCATATCTTT
CCACCGACGGACTTGAGTGTGCAATTTGTTTTGTGGGCATTTCCACACGAAGCCTACTCACACCCTCACTGGAGA
AGTCAGGGTAGAAATTGAGCCTTCAGAGCCCAACTCAAGGCTTCTACATCCTGGGGTGCAGCTGAAAAGGCCAG
ACGTGGAAGGCCTGTATCCTGCCAGTGTCCCTCCGTCAGGGGGCTGTGCTGGCACAGACCTGAGAATGGGGA
CACAGGTCAATTCAGAGCTCCAGGCCTGGAAGCAGTGCCTCTTGGTGCAACAAGAACTTCTCCCTCACCCCTCC
TTTACCCTCAGATTTGGAGATGGTAACCAAGGAAGCAGCTGGGACAGGTGGAGAAGGAAGTAGGAATGAGTGCA
CGGCGACCCCGTGTCTCCTCAGGGCCCTCCCTGCCTCTGGGTGGCACTGCTTTTTATAGGGTGGGGCAAATTAG
CAAAAAACAAAACCAATGACAACCAAACTGAAACCGAAACGAAAAATCAACAAACACTCTGTCTCTATCCCTC
CAAAGAATGAAAATCAGAAAAAGCCCTGCCTAGCTCACATTTCTATAAACAGAGGCCCCCATGATGAGGAGGTG
AAGATTTAGGTTGCAGAAATCGACTCCAATGCCTTTTCAGGAAAGGACTCGGCACTTCTCTGACTGCGGAGGCCCTG
ACCTTGCCAGCTGGCTCCGAGGGCAACACAGGGGCTGGCCTCTAGAGGGCTGGTGAATGAGGGGCCGGGCTGG
CGGCAAAGAGGGGTTTGGTCTCGGGGCTTAAATGGCACCAGACTCTTGCTTTTGGCCATCTGGAGACTGCAGGCT

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FIGURE 2488B

CCCTTCCTTACCCTCAGAGAGTGCTTATGGTGGGTGTTTTTTCGCGGGCTGCAATAGGGGGCCAAAAGTCAGGGAAA
GGGGCACTGACCTGTAGTGAAAGGCCACAGGACACAGCCTTATTACTGCTGGGGTGGGATAAGGGGAAGGAGAAG
AGGGAGAATGGAGCAGGAGGAAAAGCAGAGTTGGTCTAGAGAGGAGGAGGGCGGGGCTGGAGGAATGTGGGGGAT
TGAAACTAGCTCCCAGCCCCATGGGGCAGCAGCTGGGCCACAATTGCCCCCTTCCGTTTTCTAACCCCGACTCA
GATTTACCAACCCACACTCTTTTTAGGTGTAAAAGATGGAGTCCACGGAGGAGGGGCAGAGCCAGGAGGCAGTG
GGGCTGTGGGCTCAGAGCTCAGGAGTCGCCTTACCTGAGAGAGATGTTCTAGCTGAGAGGGCCTGGCCCTGGGGT
GGGCTCCAGGAAAACGCTGGTTAGGCCTGGGATTGAGCTAACCTGAAACAAAGGTAGTAGGCAGGACCTAATGAC
CAGAGGTTAAATCCTCATCAAGAGAGACCAGGCGGCTGGAGGACAAGCGGCTCTAACCCCTGGGGGCGGCCATGTT
GTCCAGGCCCAGGCCCCCTCCAGGACTGTGGCTGCCTCCCCTCCACGGCCTCCAGGGCGGCTGGCTGGAAAGCCAC
GCGTATGCTGCCCTCTACAGGCTGCTCGGCCTCCCTGCAGCTCAGCGCAGCCAGGGCTCCAAGTGAGGCCCAGA
AGCCCATGGGCAGGGCTGGGGGGACGAAGGGGGAACCCGGAGCACCTCCACTTCTAGGGAAGATGGACAGCGTGG
GGGCACACCTGGGCCTCCCGGAAGCTGTGGACGAAAGGGAGAGCGGGTCTCCAGGGCAAGGGGAACGGGAAATA
GGTCTCCTAGGTGCCTGAAGCGCTGAGCAACCTGGGTACCCTGGTGGGGATGCAGGGAAGGCCGGGGCAGAGAAA
GCGAAGGTCGACCCAGGGCTGTAGGAAGCCATAGGAGAGTGACCACGGGATTCCCTGAGAAACAGGGCCGGCCCC
CCAACTTCAGGGACCCACCGCCCATTCCTCCGAGAGCTGTCGGAACCAGATGCAACCCGGCAGCCAGAGAACTCT
CCTGGGAGGCTGTGGGTGAGCCAGGCCAACATTGGTGTCCCTGTCCCAGAGGGAGGAGCAGGCAGGAGAGAGAG
GGGAAGGAGGTATGAATCCAGTCCCCAGGAACCTAGCTCTTTAACTCTGGGGAGTCGGATTGAGGAAACACCC
CCAGGAGGCCAAGCCTGAAAACAGAGGGGAGGGAGGAAGGAAGGAGTCCCAGCAGGAGCACAGCCCTGGTTTCCT
GTCCTCAGAGCTGATTCACAGGAGGAGGGGAGGTTGGGGGCGGGAGACAAAACACACCTCTTTTTATATAA
GGTTTCATATTTAATTTGGTCATGGATTGATAAATACATAAGTATTTTGATC

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FIGURE 2489

MDSDMDYERPNVETIKCVVGDNAVGTKRLICARACNATLTQYQLLATHVPTVWAIDQYRVCQEVLEERSRDVVDD
VSVSLRLWDTFGDHHKDRRFAYGRSDVVVLCFSIANPNSLHHVKTWYPEIKHFCPRAPVILVGCQLDLRYADLE
AVNRARRPLARPIKPNEILPPEKGREVAKELGIPYYETSVVAQFGIKDVFDNAIRAALISRRHLQFWKSHLRNVQ
RPLLQAPFLPPKPPPIIIVVPDPPSSSEECPAHLLDPLCADVILVLQERVRIFAHKIYLSTSSSKFYDLFLMDL
SEGELGGPSEPGGTHPEDHQHSDQHSHHHHHHHHGRDFLLRAASFVCEVDEAGGSGPAGLRASTSDGILRGNG
TGYPGRGRVLSSWSRAFVSIQEEMAEDPLTYKSRLMVVVKMDSSIQPGPFRAVLKYLYTGELDENERDLMHIAH
IAELLEVFDLRMMVANILNNEAFMNQEITKAHVRRRTNRVKECLAKGTFSDVTFILDDGTISAHKPLLISSCDWM
AAMFGGPFVESSTREVVFYTSKSCMRVLEYLYTGMFTSSPDLDMMKLIILANRLCLPHLVALTEQYTVTGLME
ATQMMVDIDGDVLVFLELAQFHCAQLADWCLHHICTNYYNNVCRKFPRDMKAMSPENQEYFEKHRWPPVWYLKEE
DHYQRARKEREKEDYLHLKRQPKRRWLFWNPSPPSSSAASSSSPSSSSAVV

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FIGURE 2490A

GGTCTCAGCTGAGTCTGCTCTGATCACCCAACAAGACCTAGCTCCCCAGCAGAGAGCGGCCCCACAACAAAAGAG
GTCCAGCCCCCTCAGAGGGATTGTGTCCACCTGGACACCATATCTCAGAAGACGGTAGAGATTGCATCTCCTGCAA
ATATGGACAGGACTATAGCACTCACTGGAATGACCTCCTTTTCTGCTTGCGCTGCACCAGGTGTGATTAGGTGA
AGTGGAGCTAAGTCCCTGCACCACGACCAGAAACACAGTGTGTGTCAGTGCAGAAGAAGGCACCTTCCGGGAAGAAGA
TTCTCCTGAGATGTGCCGAAGTGCCGCACAGGGTGTCCCAGAGGGATGGTCAAGGTCCGTGATTGTACACCCTG
GAGTGACATCGAATGTGTCCACAAAGAATCAGGTACAAAGCACAGTGGGGAAGCCCCAGCTGTGGAGGAGACCGT
GACCTCCAGCCCAGGGACTCCTGCCTCTCCTGTCTCTCAGGCATCATCATAGGAGTCACAGTTGCAGCCGT
AGCTTGATTGTGGCTGTGTTTGTGCAAGTCTTTACTGTGGAAGAAAGTCCTTACCTGAAAGGCATCTG
CTCAGGTGGTGGTGGGGACCCTGAGCGTGTGGACAGAAGCTCACAAACGACCTGGGGCTGAGGACAATGTCTCTCAA
TGAGATCGTGAGTATCTTGACGCCACCCAGGTCCCTGAGCAGGAAATGGAAGTCCAGGAGCCAGCAGAGCCAAC
AGGTGTCAACATGTTGTCCCCGGGGAGTCAGAGCATCTGCTGGAACCGGCAGAAGCTGAAAGGTCTCAGAGGAG
GAGGCTGCTGGTTCCAGCAAATGAAGGTGATCCCACTGAGACTCTGAGACAGTGCCTTCGATGACTTTGCAGACTT
GGTGCCCTTTGACTCCTGGGAGCCGCTCATGAGGAAGTTGGGCCCTCATGGACAATGAGATAAAGGTGGCTAAAGC
TGAGGCAGCGGGCCACAGGGACACCTTGACACGATGCTGATAAAGTGGGTCAACAAAACCGGGCGAGATGCCTC
TGTCACACCCTGCTGGATGCCTTGAGACGCTGGGAGAGAGACTTGCCAAGCAGAAGATTGAGGACCACTTGT
GAGCTCTGGAAGTTTCATGTATCTAGAAGGTAATGCAGACTCTGCCATGTCCTAAGTGTGATTCTCTTCAGGAAG
TCAGACCTTCCCTGGTTTACCTTTTTTCTGGAAGAAAGCCCAACTGGACTCCAGTCAGTAGGAAAGTGCCACAATT
GTCACATGACCGGTACTGGAAGAAACTCTCCCATCCAACATCACCCAGTGGATGGAACATCCTGTAACCTTTTCAC
TGCACTTGGCATTATTTTTATAAGCTGAATGTGATAATAAGGACACTATGGAAATGTCTGGATCATTCCGTTTGT
GCGTACTTTGAGATTGGTTTGGGATGTGATTGTTTTACAGCACTTTTTATCCTAATGTAAATGCTTTATTTA
TTTATTTGGGCTACATTGTAAGATCCATCTACACAGTCGTTGTCCGACTTCACTTGATACTATATGATATGAACC
TTTTTTGGGTGGGGGGTGGGGGCGAGTTCAGTCTGTCTCCAGGCTGGAGTGAATGGTGAATCTTGGCTCACT
ATAGCCTTGACCTCTCAGGCTCAAGCGATTCTCCACCTCAGCCATCCAAATAGCTGGGACCACAGGTGTGCACC
ACCACGCCCGGCTAATTTTTTTGTATTTTGTCTAGATATAGGGGCTCTCTATGTTGCTCAGGGTGGTCTCGAATTC
CTGGACTCAAGCAGTCTGCCACCTCAGACTCCCAAAGCGGTGGAATTAGAGGCGTGAGCCCCCATGCTTGGCCT
TACCTTTCTACTTTTTATAATTCTGTATGTTATTATTTATGAACATGAAGAACTTTAGTAAATGTACTTGTTTA
CATAGTTATGTGAATAGATTAGATAAAACATAAAAGGAGGAGACATACAATGGGGGAAGAAGAAGTCCCTGT
AAGATGTCACTGTCTGGGTTCCAGCCCTCCCTCAGATGTACTTTGGCTTCAATGATTGGCAACTTCTACAGGGGC
CAGTCTTTTGAAGTGGACAACCTTACAAGTATATGAGTATTATTTATAGGTAGTTGTTTACATATGAGTCGGGAC
CAAAGAGAAGTGGATCCAGTGAAGTCTGTGTGTGGCTGGTCCCTACCTGGGCAGTCTCATTGACCCATAGC
CCCCATCTATGGACAGGCTGGGACAGAGGCAGATGGGTAGATCACACATAACAATAGGGTCTATGTATATCCC
AAGTGAAGTGTAGCCCTGTTTGGGCTCAGGAGATAGAAGACAAAATCTGTCTCCACGCTGTGCCATGGCATCAAG
GGGGAAGAGTAGATGGTGCTTGAGAATGGTGTGAAATGGTTGCCATCTCAGGAGTAGATGGCCCGGCTCACTTCT
GGTTATCTGTCAACCTGAGCCCATGAGCTGCCTTTTAGGGTACAGATTGCCTACTTGAGGACCTTGCCCGCTCTG
TAAGCATCTGACTCATCTCAGAAATGTCAATTCTTAAACACTGTGGCAACAGGACCTAGAATGGCTGACGCATTA
AGGTTTTCTTCTGTGTCCTGTTCTATTATTGTTTTAAGACCTCAGTAACCATTTTCAGCCTCTTTCCAGCAAACC
CTTCTCCATAGTATTTTCACTCATGGAAGGATCATTTATGCAGGTAGTCATTCCAGGAGTTTTTGGTCTTTTCTGT
CTCAAGGCATTGTGTGTTTTGTTCCGGGACTGGTTTGGGTGGGACAAAGTTAGAATTGCCTGAAGATCACACATT
CAGACTGTTGTGTCTGTGGAGTTTLAGGAGTGGGGGGTGACCTTTCTGGTCTTTGCACTTCCATCCTCTCCCACT
TCCATCTGGCATCCACGCGTTGTCCCCTGCACTTCTGGAAGGCACAGGGTGTCTGCTGCCTCCTGGTCTTTGCCCT
TTGCTGGGCTTCTGTGCAGGACGCTCAGCCTCAGGGCTCAGAAGGTGCCAGTCCGGTCCCAGGTCCCTTGTCCC
TTCCACAGAGGCCTTCCTAGAAGATGCATCTAGAGTGTGAGCCTTATCAGTGTTAAGATTTTTCTTTTATTTTT
AATTTTTTTGAGACAGAATCTCACTCTCTCGCCAGGCTGGAGTGCAACGGTACGATCTTGGCTCAGTGCAACCT
CCGCCTCCTGGGTTCAAGCGATTCTCGTGCCTCAGCCTCCGGAGTAGCTGGGATTGCAGGCACCCGCCACACGC
CTGGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTTACCATGTTGGTCAGGCTGGTCTCGAACTCCTGACCTC
AGGTGATCCACCTTGGCCTCCGAAAGTGTGGGATTACAGGCGTGAGCCACCAGCCAGGCCAAGCTATTCTTTTA
AAGTAAGCTTCTGACGACATGAAATAATTGGGGGTTTTGTTGTTTAGTTACATTAGGCTTTGCTATATCCCCAG
GCCAAATAGCATGTGACACAGGACAGCCATAGTATAGTGTGCTCACTCGTGGTTGGTGTCTTTTCATGCTTCTGCC

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FIGURE 2490B

CTGTCAAAGGTCCCTATTTGAAATGTGTTATAATAACAAACAAGGAAGCACATTGTGTACAAAATACTTATGTATT
TATGAATCCATGACCAAATTAAATATGAAACCTTATAT

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FIGURE 2491

CGGACGCGTGGGCAGGCAGCAGCCGGCAGGGATGCTCCTGCGCTCCCGGGCGGCCTCGGGCCAGCCACCTGCT
CGCCGGGGAAGAGGACACGCAGAGGAGCAGCTGGCTTGCCCGGAGTCTCCACCTTGACCCAAGCATGCAGGGC
CCACCCCGCAGCCTCCGCGCTGGGCTCAGCCTGGACGACTTCATCCCTGGCCACCTCCAGTCCCACATAGGGTCT
TCCTCCCGGGGACACGGGTGCCCGTGATCCGGAATGGTGGCTCCAACACCCTTAATTTCCAGTTCCACGACCCC
GCGCCAGGACTGTGTGCAATGGGGGCTACACACCAAGACGAGATGCTTCCCAGCACCCGGACCCTGCGTGGTAT
CAGACCTGGCCAGGCCCTGGGAGCAAGCCCTCTGCAAGCACAAAGATCCCTGCGCTCCCAGCACACCCAGAACTGG
TCAGCCACGTGGACCAAGGACAGCAAGCGTCGGGACAAGCGCTGGGTCAAGTACGAGGGAATCGGGCCCCGTGGAC
GAGAGCGGCATGCCCATTGCCCCCGATCCAGCGTTGACAGACCCAGAGACTGGTACCGGAGAATGTTCCAGCAG
ATTACCCGAAAAATGCCAGACTTGACGCTGGACTGGACCTTCGAGGAGCCACCCAGAGACCCAGGCATCTAGGA
GCCCAGCAAAGACCTGCCCACAGGCCCGGCCCGGCAACATCTTCCAGTGGAAGAAGCTGGGACCACTCTGAAGAG
TTACCTAGAAGCACCTTCAACTACAGACCTGGAGCATTCTCCACTGTGCTGCAGCCCTCAAATCAGGTGCTCAGA
CGCCGGGAAAAAGTAGACAATGTCTGGACGGAAGAGTCTGGAACCAAGTTCTGCAGGAACTAGAGACTGGGCAG
AGGCCCCAAGAAACCGCTGGTGGACGACCCTGGTGAGAAGCCCTCCAGCCCATTTAGGTGCTGCTGGAGAGAGAG
CTGGCCGAGCTGAGCGCCGAGCTGGACAAGGACCTGCGGGCAATTGAGACCCGACTGCCGTCCCCCAAGAGCTCG
CCGGCGCCCCGACGGGCCCCGGAGCAGCGGCCCCCGGCCGGCCCGGCTCAGCCTGGAGCTCCAGCTACCCACAT
GCACCTTACCTGGGTTCGCCCCGGTCCCTGAGTCCCCACAAATGGCTGATGGAGGAAGCCCCCTTCCTAGGTGCG
AGGGACTTTGTCTACCTTCCCTCAACCCGAGACCCTAGTGCCTCTAACGGAGGGGGCAGCCCAGCCAGGAGGGAA
GAGAAGAAGAGAAAGGCCGCCAGGCTCAAGTTTGACTTCCAGGCGCAGTCCCCCAAGGAGCTGACTCTGCAGAAG
GGTGACATTGTCTACATCCACAAGGAGGTGGACAAGAAGCTGGCTGGAGGGAGAGCACCACGGCCCGCTGGGCATC
TTCCCTGCTAATTATGTGGAGGTGCTGCCCGCAGATGAGATCCCTAAGCCCATCAAGCCCCCGACCTACCAGGTG
CTGGAGTATGGAGAGGCTGTGGCCCCAGTACACCTTCAAGGGGGACCTGGAGGTGGAGCTGTCTTCCGCAAGGGA
GAGCACATCTGCCTGATCCGCAAGGTGAACGAGAACTGGTACGAGGGACGCATCACGGGCACGGGGCGCCAAGGC
ATATTCCCTGCCAGCTACGTGCAGGTGTCTCGTGAACCCCGGCTCCGGCTCTGTGACGACGGCCCCCAGTCCCC
ACGTCTCCCCGCTGACCGCTGCCGCCCCGCTCAGCCCGTACCCAGCTCCCCCTCAGCCCTGCGCAGCCAGCT
GACCCACCGACTTGCGGGGACAGACCTCCCCCGTCGCACTGGCTTCTCCTTCCCCACCCAGGAGCCTAGACCC
CAGACCCAGAATCTTGGCACCCCTGGTCCAGCTCTGTCCCCTCTCGAGGTCCCAGCCATCCCCCTGGACCTGGGG
ACCTCCTCTCCTAACACCTCTCAGATACACTGGACCCCGTACCGGGCGATGTACCAGTACAGGCCCCAGAACGAA
GACGAGCTGGAGCTGCGCGAGGGGGACAGGGTGGATGTCATGCAGCAGTGTGACGATGGCTGGTTTGTGGGTGTC
TCCCGGAGGACCCAGAAATTCGGAACGTTCCCTGGAAATTACGTTGCCCGGGTGTGAGTGGTCTCCATGGCAACT
TGGAGCCAGCCAGGATGGGGTGGGGAGCGGTGGCACTCGTGGGAGGGAGAGGACCCCGCCACATCCTCCTTCC
CCAGGACCTGAGCTCCCAGCATCTGCAGACGACCCCCGACGCAATTCCCTCGGACCCCCCTCGAAGCCCCCTGGA
CTGATTCCCACCCACGACTCACAGGCATTCTCCACAGCCCTTTCATTTCCTCCCCACCCCACTCCCCAAATAC
AGAGGTCTGCTTTGAAGCGGAGACCATTTCAGGCCTTATTGAGACCAGACCCCAAGTCCCCCACTCCCCATCCTG
CTCCAGCGTTTCCTCTAACAGGGACCAGCTCTCCGCTTTGCCCCACGGGGTTCTCTAACAGAACAGCTTCC
TAGCCTCGTAGAGACCAAGGCCGCCCCCGCCTGCTGGGGTTCTCTCCAGCACCCAGCTTGCTGGCTGCCCTCT
TTGCCTTCTGGCCTCCAGCTGGGTGTGGGGGGGCGGAGCAAGGCGGGGGACAGACGCAGCACCTTCTTAGCGATC
TAGGCCTGGCAAGAGCTCTGGCCCCAAGGCCTCCTCTTCCAGGGGCTGCCAAGTCTGGCCCTGGCCCTGGCAT
ATCACCCCGCACTGTGGGGCCAGGCACCACTAGCCTGGCTCAAATATTCCCCAGGGAGACTGCTGTGTGCTGCCC
GCCTGCCTGCTGGCTCTCCCCAGCCCCACATCCCTCTGGAAGAGAATGTAAAATAAACCTGGACACAAGGGCC
TTCGTGGCCTCGA

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FIGURE 2492

MQGPFRSLRAGLSLDDFIPGHLQSHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAPRTVCNGGYTPRRDASQHPDP
AWYQTWPGPGSKPSASTKIPASQHTQNSATWTKDSKRRDKRWVKYEGIGPVDESGMPIAPRSSVDRPRDWYRRM
FQQIHRKMPDLQLDWTFEPPRDPRLGAQQORPAHRPGPATSSSSGRSWDHSEELPRSTFNYPGAFSTVLQPSNQ
VLRRREKVDNVWTEESWNQFLQELETGQRPKKPLVDDPGKPSQPIEVLLERELAELSAELDKDLRAIETRLPSP
KSSPAPRRAPQRPAPGASAWSSSYPHAPYLGSARSLSPHKMADGGSPFLGRRDFVYPSSTRDPSASNGGGSPA
RREEKKRKAARLKFDFAQSPKELTLQKGDIVYIHKEVDKNWLEGEHHGRLGIFPANYVEVLPAD EIPKPIKPPT
YQVLEYGEAVAQYTFKGDLEVELSFRKGEHICLIRKVNENWYEGRITGTGRQGIFPASYVQVSREPRRLCDDGP
QLPTSPRLTAAARSARHPSSPSALRSPADPTDLGGQTSRRTGFSFPTQEPRPQTQNLGTFGPALSHSRGPSHPL
DLGTSSPNTSQIHWTPYRAMYQYRPQNEDELELEREGDRVDVMQQCDDGWFVGVSRRTQKFGTFFGNVYAPV

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FIGURE 2493

ACTTCCGCCC GGCGCGGAGACCGAAGGCTGGCGGCTGGTTCGCGTTGCAGGCAACATGTCGGAAGGAAACGCCGCC
GGCGAGCCCAGCACGCCGGGAGGGCCCCGACCTCTCCTGACTGGGGCCCCGGGGGCTCATCGGGCGGCGGCCGGCG
CTCCCCCTCACCCCGGCGCCTTCCCTCCATCCGTTCCAGGGACCTCACCTCGGGGGAGTCAAGAAGAAAACC
TTCACCCCAAATATCATCAGTCGGAAGATCAAGGAAGAGCCCAAGGAAGAAGTAAGTGTCAAGAAGGAGAAGCGT
GAAAGGGACAGAGACCGACAACGAGAGGGGCATGGACGAGGGCGAGGCCGTCCAGAAGTGATCCAGTCTCACTCC
ATCTTTGAGCAGGGCCCAGCTGAAATGATGAAGAAAAAGGGAACCTGGGATAAGACAGTGGATGTGTCAGACATG
GGACCTTCTCATATCATCAACATCAAAAAAGAGAAGAGAGAGACAGACGAAGAACTAAACAGATCTTGCGTATG
CTGGAGAAGGACGATTTCCCTCGATGACCCCGCCTGAGGAACGACACTCGAAATATGCCTGTGCAGCTGCCGCTG
GCTCACTCAGGATGGCTTTTTAAGGAAGAAAATGACGAACCAGATGTTAAACCTTGGCTGGCTGGCCCCAAGGAA
GAGGACATGGAGGTGGACATACCTGCTGTGAAAGTGAAAGAGGAGCCACGAGATGAGGAGGAAGAGGCCAAGATG
AAGGCTCCTCCCAAAGCAGCCAGGAAGACTCCAGGCCTCCCGAAGGATGTATCTGTGGCAGAGCTGCTGAGGGAG
CTGAGCCTCACCAAGGAAGAGGAAGTCTGTTTTCTGCAGCTGCCAGACACCCTCCCTGGCCAGCCACCCACCCAG
GACATCAAGCCTATCAAGACAGAGGTGCAGGGCGAGGACGGACAGGTGGTGTCTCATCAAGCAGGAGAAAGACCGA
GAAGCCAAATTGGCAGAGAATGCTTGTACCCTGGCTGACCTGACAGAGGGTCAGGTTGGCAAGCTACTCATCCGC
AAGTCTGGAAGGGTGCAACTCCTCTTGGGCAAGGTGACTCTGGACGTGACCATGGGAAGTGCCTGCTCCTTCCTG
CAGGAGCTGGTGTCCGTGGGCCTTGGAGACAGTAGGACAGGGGAGATGACAGTCCTGGGACACGTGAAGCACAAA
CTTGTATGTTCCCCTGATTTTGAATCCCTCTTGGATCACAAACACCGGTAAAATGAGCAGGTGGAGGAGGACGGC
GCCTGTGCCACGGCTGCTGCCTGCTCCAGACATTTTGTCTTGAATCTGTGAGACCCAGAAGGGGGCCCACTGAG
CCCACTCACTCCAGCCTTTGGCAACCATTGTTCCAGGTCCCCCAGGGCTTCCTCCCACAGCAGCTGTGAATGGCA
CAGTGACCTTCCTGCAGCGTGGAGATGGCACATCCTTGCTGCTGGGGACTTGGCCCTGCTATTTATTTTTGTATT
TATGTCCTAATCTCTTCCACTGATGCATCCTCCAAGGGTAGATGGGGAGGGTCTGTGTGAAGGGGCCGGCTTCTC
TTGGTGCCTGCTGGGTTCAGGGGCAGGAAGCGTGTGGACTGCAGCTTCTGCTGGTGCTCCCCCGTCCTCCTGG
AGGCAGTATAGGAGAGAGAGCAAGGATTGAGTCTGAGACTTAAGCACTCGGTCCCAGCTTGCCAGTTCCCTGGTTC
TGTGTCCTTGGACAACTACCTAACCTTTCTGAGCCTCCTATACCTCATCCGACACAAATGGGGATGATACCTAC
CTCCAGGGTTGGCGTGAGGATTCATGGGCTATTATAGATGAAAACCTGCACAAGGCCAGAACCAGCAGGCACCTCAA
TAAACGTTTCATGTCCTTTTCTCT

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FIGURE 2494

MSEGNAAGEPSTPGGPRPLLTGARGLIGRRPAPPLTPGRLPSIRSRDLTLGGVKKKTFTPNIIISRKIKEEPKEEV
TVKKEKREDRDRQREGHGRGRGRPEVIQSHSIFEQGPAEMMKKKGNWDKTVDVSDMGPSHIINIKKEKRETDEE
TKQILRMLEKDDFLDDPGLRNDTRNMPVQLPLAHSGWLFKEENDEPDVKPWLAGPKEEDMEVDIPAVKVKEEPRD
EEEEAKMKAPPKAARKTPGLPKDVSVAELLRELSLTKEEELLFLQLPDTLPGQPPTQDIKPIKTEVQGEDGQVVL
IKQEKDREAKLAENACTLADLTEGQVGKLLIRKSGRVQLLLGKVTLDMGTACSFLOELVSVGLGDSRTGEMTV
LGHVKHKLVCSPDFESLLDHKHR

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FIGURE 2495

GCCGCTTCCCTCGCCGCCGCCCGCCAGCATGCCCGGCGTGGCCCGCCTGCCGCTGCTGCTCGGGCTGCTGCTGC
TCCCGCGTCCCGGCCCGCCGCTGGACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA
ACACTTCTACCCCCAGCTGCCAGAGCACCACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTTGTCATTGGGG
GAAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTC
GCCGCGGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG
GCCACGTCGTGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTTCGTGAGAACA
TCCAGCCAGGGCAGGAGTATAACTTCTGAAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATG
AGGTGAACGGGGTGAAACCTCCCATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGC
TTTACAAGTGCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATG
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACTTCACGT
CCCTGGACCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC
CCCICCGAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTGAAT
TCCGCAGCAGCAATTGGGTTGGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA
AGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCC
AGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCCTTTGAGATTGAGCGCCACGACAGCTGTGCCTACG
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG
ATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTG
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA
CCCTGGGCAGCTACAAGTGACGTGTGACCCCGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT
GTGGCGGATTCTCACCAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA
ACTGCATCTGGCAGCTGGTGGCCCCACCCAGTACCGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCA
ATGATGTGTGCAAGTACGACTTCTGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT
GTGGTTCTGAGAAGCCCAGGTTCATCACCTCCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACACCG
TGTCCAAAAGGGCTTCAAGGCCACTTCTTCTCAGAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGACGCCCCC
ACCAGCTCAAATTCGAGTGCAGAAAAGAAACCGGACCCCCCAGTGAGCGCTGCCAGGCCTCCCGGACCCCTTGT
TACTCAGGAACCTCACCTTGGACGGAATGGGATGGGGCTTCGGTGCCCAACCCCCACCTCCACTCTGCCA
TTCCGGCCACCTCCCTCTGGCCGGACAGAACTGGTGCTCTCTTCTCCCCACTGTGCCCGTCCGCGGACCGGGGA
CCCTTCCCCGTGCCCTACCCCTCCATTTTGATGGTGTCTGTGACATTCCTGTTGTGAAGTAAAAGAGGGACC
CCTGCGTCCTGC

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FIGURE 2496

MPGVARLP L L L L L L L L L P R P G R P L D L A D Y T Y D L A E E D D S E P L N Y K D P C K A A A F L G D I A L D E E D L R A F Q V Q Q A V D L R
R H T A R K S S I K A A V P G N T S T P S C Q S T N G Q P Q R G A C G R W R G R S R S R R A A T S R P E R V W P D G V I P F V I G G N E T G S Q R A V
F R Q A M R H W E K H T C V T F L E R T D E D S Y I V F T Y R P C G C C S Y V G R R G G G P Q A I S I G K N C D K F G I V V H E L G H V V G F W H E H
T R P D R D R H V S I V R E N I Q P G Q E Y N F L K M E P Q E V E S L G E T Y D F D S I M H Y A R N T F S R G I F L D T I V P K Y E V N G V K P P I G
Q R T R L S K G D I A Q A R K L Y K P A C G E T L Q D S T G N F S S P E Y P N G Y S A H M H C V W R I S V T P G E K I I L N F T S L D L Y R S R L C
W Y D Y V E V R D G F W R K A P L R G R F C G S K L P E P I V S T D S R L W V E F R S S S N W V G K G F F A V Y E A I C G G D V K K D Y G H I Q S P N
Y P D D Y R P S K V C I W R I Q V S E G F H V G L T F Q S F E I E R H D S C A Y D Y L E V R D G H S E S T L I G R Y C G Y E K P D D I K S T S S R L
W L K F V S D G S I N K A G F A V N F F K E V D E C S R P N R G G C E Q R C L N T L G S Y K C S C D P G Y E L A P D K R R C E A A C G G F L T K L N G
S I T S P G W P K E Y P P N K N C I W Q L V A P T Q Y R I S L Q F D F F E T E G N D V C K Y D F V E V R S G L T A D S K L H G K F C G S E K P E V I T
S Q Y N N M R V E F K S D N T V S K K G F K A H F F S E K R P A L Q P P R G R P H Q L K F R V Q K R N R T P Q

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FIGURE 2497

GCCGCTTCCCTCGCCGCCGCCCGCCAGC**ATG**CCCGGCGTGGCCCGCCTGCCGCTGCTGCTCGGGCTGCTGCTGC
TCCCGCGTCCCGGCCCGCGCTGGACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCC
TCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCT
TCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAA
ACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGAT
CCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCTTTGTCAATTGGGG
GAAACTTCACTGGTAGCCAGAGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCT
TCCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGGCGGGTGCTGCTCCTACGTGGGTC
GCCGCGGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGG
GCCAGTCTGTGGCTTCTGGCACGAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTTCGTGAGAACA
TCCAGCCAGGGCAGGAGTATAACTTCTTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACT
TCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATAACATTGTCCCCAAGTATG
AGGTGAACGGGGTGAAACCTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGC
TTTACAAGTGCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATG
GCTACTCTGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACCTCACGT
CCCTGGACCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGC
CCCTCCGAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTGAAT
TCCGCAGCAGCAATTGGGTGGAAAGGGCTTCTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAA
AGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCC
AGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCAGTCTTTTGGATTGAGCGCCACGACAGCTGTGCCTACG
ACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTG
ATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTG
CCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACA
CCCTGGGCAGCTACAAGTGACGTGTGACCCCGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGCTGCTT
GTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCAAGGAGTACCCCCCAACAAGA
ACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGAATCTTTGAGACAGAGGGCA
ATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCT
GTGGTTCTGAGAAGCCCAGGTTCATCCTCCAGTACAACAACATGCGCGTGGAGTTCAAGTCCGACAACACCG
TGTCAAAAAAGGGCTTCAAGGCCACTTCTTCTCAGTCTTGGAGGGGGCAGGGGACCGACACTCACATCTATCAG
GCCTGGAGTTACTGCTCTGCCCCATGCCCTGGTGCACACTGTGCCCGCCCCACCCTCAGCCCTGCACGGAGACA
CACACGCCACACGCACACACATGTGCACACACATTGCCCATCGCACAAAGAACTGCAGAGGACCCCCACTGG
GGGCATCGAGGCTCAGCCCTCAGGGCCCGGGCATCTGACTCTGGCCCCCAGGAGGGGAGCTATTTGGACTTTT
GGGACACCCACCGAGGAGACCCTAAGCCAAGAAGGAGAAGAAAGAGCCTGAAGACCTTCAGTCTGACCCCTGCCA
CCTTCCGGGGCATTGGGCACTG**TAG**GAAAAGAGGCCAGCTCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCA
AATTCCGAGTGCAGAAAAGAAACCGACCCCCCAGTGAGGCCTGCCAGGCCTCCCGGACCCCTTGTTACTCAGGA
ACCTCACCTTGGACGGAATGGGATGGGGGCTTCGGTGCCACCAACCCCCACCTCCACTCTGCCATTCCGGCCC
ACCTCCCTCTGGCCGGACAGAACTGGTGCTCTTCTTCTCCCACTGTGCCCGTCCGCGGACCGGGGACCCCTTCCCC
GTGCCCTACCCCTCCCATTTTGATGGTGTCTGTGACATTCTCTGTTGTGAAGTAAAAGAGGGACCCCTGCGTCC
TGC

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FIGURE 2498

MPGVARLP LLLGL LLLLP RPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKA AVPGNTSTPSCQSTNGQPQRGACGRWRGRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPD RDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDITVPKYEVNGVKPPIG
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKIILNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTD SRLWVEFRSSSNWVGKGF FAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDS CAYDYLEVRDGHSESSTLIGRYCGYEKPD DIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGEQRCLNTLGSYKCS CDPGYELAPDKRRCEAACGGFLT KLNG
SITSPGWPKEYPPNKNCIWQLVAPTQYRISLQFDF FETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVIT
SQYNNMRVEFKSDNTVSKKGFKAHFFSVLEGAGDRHSHLSGLELLLC PHALVDTPAPP SALHGDTHAHTH THVH
THCPIAQETCRGPPLGASRLSPQGPGLTLAPQEGSYLDFWDTHRGDPKPRRRRKSLKTFSLTPATFRGIWAL

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FIGURE 2499

GCCAGCATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCGTCCCGGCCGGCCGCTG
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCCTCAACTACAAAGACCCCTGCAAG
GCGGCTGCCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG
TCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCCTTGTTCATTGGGGGAAACTTCACTGGTAGCCAGAGG
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTACCTTCTGGAGCGCACTGACGAGGAC
AGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTGCGCGCGGGCGGGGGCCCCCAGGCC
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTGCTCGGCTTCTGGCAC
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAACATCCAGCCAGGGCAGGAGTATAAC
TTCTTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAGCATCATGCATTACGCT
CGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTTGTCCCCAAGTATGAGGTGAACGGGGTGAAACCTCCC
ATTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAAGTGCCAGCCTGTGGA
GAGACCTGCAAGACAGCACAGGCAACTTCTCCTCCCCCTGAATACCCCAATGGCTACTCTGCTCACATGCACTGC
GTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTTACGTCCCTGGACCTGTACCGCAGCCGC
CTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCTCCGAGGCCGCTTCTGCGGG
TCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTTCTGGGTTGAATTCCGCAGCAGCAGCAATTGGGTT
GGAAAGGGCTTCTTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAAGGACTATGGCCACATTCAATCG
CCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTG
GGCCTCACATTCCAGTCTTTTGAAGATTGAGCGCCACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGG
CACAGTGAGAGCAGCACCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGC
CGCCTCTGGCTCAAGTTCTGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTGCCGTCAACTTTTTTCAAAGAGGTG
GACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGCAGC
TGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGTGAGGGGTGTTATGATCTACAGGTTGGGAAACCC
CTGTTGTGGGACAGACACTGTTTCCGCCTCTCCACGCATGGTCCCGAGATGCTGGGGACAGCACTCCGAGGCTTAA

TGGCTCCAGCTCACTAGGCCGATCCTGCTGTGCCCCCGAGCTGCTCCCTTTCTGACCTCCAGGACCGCCCCCT
CCCTGAACTGCTTTCCCTGAGTCCCTTATTCCCGCTCACTCCCTCTTGGAGGACCTTGGCCTGTTTCAATTTGCAGA
GAAGATAGAAATGGCCACACTTATGACCCCTTAGCTCCCCCACTCCTCCCTACAGGCCACCCCTGAGGACACCC
AGGCCACCCTGCCTCCTCCCGTCCGCCCCAGAGGGACAGACACAGGTCCCTGAGCCTTGGGGAGTCCACAGGCT
CCCCATCTTCTCCTTACTGCATCTCAGCCACATCTCAGCCCTTCCCCATGGCAGGGGGCTCCCCGCAGACGATGC
CACCTTCCTTGTCCCCGAGCTGCTTGTGGCGGATTCTTACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTG
GCCCCAAGGAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCA
GTTTGACTTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGC
TGACTCCAAGCTGCATGGCAAGTTCTGTGGTTCTGAGAAGCCCCGAGGTCAACCTCCAGTACAACAACATGCG
CGTGGAGTTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGC
TCTGCAGCCCCCTCGGGGACGCCCCACCAGCTCAAATTCCGAGTGCAGAAAAGAAACCGGACCCCCCAG

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FIGURE 2500

MPGVARLP LLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKA AVPGNTSTPSCQSTNGQPORGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDFGIVVHELGHVVGFWHEH
TRPD RDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRGIFLDTIVPKYE VNGVKPPIG
QRTLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMHCVWRISVTPGEKIILNFTSLDLYRSRLC
WYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSSSNWVGKGF FAVYEAICGGDVKKDYGHIQSPN
YPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERHDS CAYDYLEVRDGHSESSTLIGRYCGYEKPDDIKSTSSRL
WLKFVSDGSINKAGFAVNFFKEVDECSRPNRGGCEQRCLNTLGSYKCS CDPGYELAPDKRRCEGCYDLQVGKPLL
WDRHCFRLSTHGPEMLGTALRG

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FIGURE 2501

GCCAGCATGCCCGGCGTGGCCCGCCTGCCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCGTCCCGGCCGGCCGCTG
GACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCTCAACTACAAAGACCCCTGCAAG
GCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGAT
CTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGCTGCAGTTCCAGGAAACACTTCTACCCCCAGCTGCCAG
AGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACG
TCCCGACCAGAGCGTGTGTGGCCCGATGGGGTCATCCCCTTTGTCATTGGGGGAAACTTCACTGGTAGCCAGAGG
GCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAACACACCTGTGTACCTTCCCTGGAGCGCACTGACGAGGAC
AGCTATATTGTGTTACCTATCGACCTTGCGGGTGCTGCTCCTACGTGGGTGCGCGCGGCGGGGGCCCCCAGGCC
ATCTCCATCGGCAAGAACTGTGACAAGTTCGGCATTGTGGTCCACGAGCTGGGCCACGTGCTCGGCTTCTGGCAC
GAACACACTCGGCCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAACATCCAGCCAGGCGTTCTCCACTCT
TCACTGCTCCTTCTCAGCTGTGGCTCTAGAAAATGGTGCTTCTTCCCATGTTCCCTTGAGTCCCTCCACTCACCAG
GCCCTCTGCTGGACAGGACTCTTCTCAGACCCCTCCCCATTCCCCAGGCTCCCCTTGGCTGCTCCCCGGACCCCTC
AGGGCAGGAGTATTAACTTCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGACAG
CATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCTGGATACCATTGTCCCCAAGTATGAGGTGAA
CGGGGTGAAACCTCCCATTTGGCCAAAGGACACGGCTCAGCAAGGGGGACATTGCCCAAGCCCGCAAGCTTTACAA
GTGCCCAGCCTGTGGAGAGACCCTGCAAGACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATGGCTACTC
TGCTCACATGCACTGCGTGTGGCGCATCTCTGTACACCCGGGGAGAAGATCATCCTGAACTTACGTCCCTGGA
CCTGTACCGCAGCCGCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGGAGGAAGGCGCCCCCTCCG
AGGGCCCAACACTGGCCAGGGATGACAACCTGGTATGGGAGCCAGGAGTCCCTGGCATCATTAGTCCCAGATAGCT
GCATTACTCACTTGTGCGAGACTTCAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGAC
AGCCGCTCTGGGTGTAATTCCGCAGCAGCAGCAATTGGGTGGAAAGGGCTTCTTTGCAGTCTACGAAGCCATC
TGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAATCGCCCAACTACCCAGACGATTACCGGCCAGCAAA
GTCTGCATCTGGCGGATCCAGGTGTCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCCTTTGAGATTGAGCGC
CACGACAGCTGTGCCTACGACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCCTCATCGGGCGCTAC
TGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCC
ATTAACAAAGCGGGCTTTGCCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGT
GAGCAGCGGTGCCTCAACACCCTGGGCAGCTACAAGTGACGCTGTGACCCCGGTACGAGCTGGCCCCAGACAAG
CGCCGCTGTGAGGCTGCTTGTGGCGGATTCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGGCCCCAAG
GAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCAGTACCGCATCTCCCTGCAGTTTGAC
TTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCC
AAGCTGCATGGCAAGTTCTGTGGTTCTGAGAAGCCCGAGGTCAACCTCCAGTACAACAACATGCGCGTGGAG
TTCAAGTCCGACAACACCGTGTCCAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGCTCTGCAG
CCCCCTCGGGGACGCCCCACCAGCTCAAATTCCGAGTGCAAAAAGAAACCGGACCCCCAG

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FIGURE 2502

MPGVARLP LLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQAVDLR
RHTARKSSIKA AVPGNTSTPSCQSTNGQPQRGACGRWRGRSRSRRAATSRPERVWPDGVIPFVIGGNFTGSQRAV
FRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDKFGIVVHELGHVVGFWHEH
TRPD RDRHVSIVRENIQPGVLHSSLLLLSCGSRNGASFPCSLESSTHQALCWTGLFLRPSFPRLPLAAPRTLRA
GV

FIGURE 2503

[illegible]

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FIGURE 2504

MVSWMICRLVVLVFGMLCPAYASYKAVTKNIREYVRWMMYWIVFALFMAAEIVTDIFISWFPPFYIEIKMAFVLW
LLSPYTKGASLLYRKFFVHPSLSRHEKEIDAYIVQAKERSYETVLSFGKRGLNIAASAQVQAATKSQALAGRLRS
FSMQDLRSISDAPAPAYHDPLYLEDQVSHRRPPIGYRAGGLQSDTEDECWSDTEAVPRAPARPREKPLIRSQSL
RVVKRKPPVREGTSRSLKVRTRKKTVPDSDVS

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FIGURE 2505

GACTGCAATGTGCCGATCTTAGCTGCTGCCTGAGAGGATGTCTGGGGTGTCCGAGCCCCGTGAGTCGAGTAAAGTT
GGGCACGTTACGCCGGCCTGAAGGCCCTGCAGAGCCCATGGTGGTGGTACCAGTAGATGTGGAAAAGGAGGACGT
GCGTATCCTCAAGGTCTGCTTCTATAGCAACAGCTTCAATCCTGGGAAAACTTCAAACCTGGTCAAATGCACTGT
CCAGACGGAGATCCGGGAGATCATCACCTCCATCCTGCTGAGCGGGCGGATCGGGCCCCAACATCCGGTTGGCTGA
GTGCTATGGGCTGAGGCTGAAGCACATGAAGTCCGATGAGATCCACTGGCTGCACCCACAGATGACGGTGGGTGA
GGTGCAGGACAAGTATGAGTGTCTGCACGTGGAAGCCGAGTGGAGGTATGACCTTCAAATCCGCTACTTGCCAGA
AGACTTCATGGAGAGCCTGAAGGAGGACAGGACCAGCTGCTCTATTTTTACCAACAGCTCCGGAACGACTACAT
GCAGCGCTACGCCAGCAAGGTGACGAGGGCATGGCCCTGCAGCTGGGCTGCCTGGAGCTCAGGCGGTTCTTCAA
GGATATGCCCCACAATGCACTTGACAAGAAGTCCAACCTTCGAGCTCCTAGAAAAGGAAGTGGGGCTGGACTTGTT
TTTCCCAAAGCAGATGCAGGAGAACTTAAAGCCCCAACAGTTCGGAAGATGATCCAGCAGACCTTCCAGCAGTA
CGCCTCGCTCAGGGAGGAGGAGTGCCTCATGAAGTCTTCAACACTCTCGCCGGCTTCGCCAACATCGACCAGGA
GACCTACCGCTGTGAACTCATTCAAGGATGGAACATTACTGTGGACCTGGTCATTGGCCCTAAAGGGATCCGCCA
GCTGACTAGTCAGGACGCAAAGCCCACCTGCCTGGCCGAGTTCAAGCAGATCAGGTCCATCAGGTGCCTCCCGCT
GGAGGAGGGCCAGGCAGTACTTCAGCTGGGCATTGAAGGTGCCCCCAGGCCTTGTCCATCAAAACCTCATCCCT
AGCAGAGGCTGAGAACATGGCTGACCTCATAGACGGCTACTGCCGGCTGCAGGGTGAGCACCAAGGCTCTCTCAT
CATCCATCCTAGGAAAGATGGTGAGAAGCGGAACAGCCTGCCCCAGATCCCCATGCTAAACCTGGAGGCCCGCG
GTCCCACCTCTCAGAGAGCTGCAGCATAGAGTCAGACATCTACGCAGAGATTCCCGACGAAACCTGCGAAGGCC
CGGAGGTCCACAGTATGGCATTGCCCGTGAAGATGTGGTCTGAATCGTATTCTTGGGGAAGGCTTTTTTGGGGA
GGTCTATGAAGGTGTCTACACAAATCACAAAGGGGAGAAAATCAATGTAGCTGTCAAGACCTGCAAGAAAGACTG
CACTCTGGACAACAAGGAGAAGTTCATGAGCGAGGCAGTGATCATGAAGAACCTCGACCACCCGCACATCGTGAA
GCTGATCGGCATCATTGAAGAGGAGCCACCTGGATCATCATGGAATTGTATCCCTATGGGGAGCTGGGCCACTA
CCTGGAGCGGAACAAGAACTCCCTGAAGGTGCTCACCCTCGTGTGCTACTCACTGCAGATATGCAAAGCCATGGC
CTACCTGGAGAGCATCAACTGCGTGACAGGGACATTGCTGTCCGGAACATCCTGGTGGCCTCCCGTGAGTGTGT
GAAGCTGGGGGACTTTGGTCTTTCCCGGTACATTGAGGACGAGGACTATTACAAAGCCTCTGTGACTCGTCTCCC
CATCAAATGGATGTCCCCAGAGTCCATTAACTTCCGACGCTTACGACAGCCAGTGACGTCTGGATGTTCCCGCT
GTGCATGTGGGAGATCCTGAGCTTTGGGAAGCAGCCCTTCTTCTGGCTGGAGAACAAGGATGTATCGGGGTGCT
GGAGAAAGGAGACCGGCTGCCAAGCCTGATCTCTGTCCACCGGTCCTTTATACCCTCATGACCCGCTGCTGGGA
CTACGACCCCAAGTACCGGCCCCGCTTACCCGAGCTGGTGTGCAGCCTCAGTGACGTTTATCAGATGGAGAAGGA
CATTGCCATGGAGCAAGAGAGGAATGCTCGCTACCGAACCCCAAAATCTTGGAGCCCACAGCCTTCCAGGAACC
CCCACCAAGCCCAGCCGACCTAAGTACAGACCCCCCTCCGCAAACCAACCTCCTGGCTCCAAAGCTGCAGTTCCA
GGTTCCTGAGGGTCTGTGTGCCAGCTCTCCTACGCTCACCAGCCCTATGGAGTATCCATCTCCCGTTAACTCACT
GCACACCCACCTCTCCACCGGCACAATGTCTTCAAACGCCACAGCATGCGGGAGGAGGACTTCATCCAACCCAG
CAGCCGAGAAGAGGCCAGCAGCTGTGGGAGGCTGAAAAGGTCAAATGCGGCAAATCCTGGACAAACAGCAGAA
GCAGATGGTGGAGGACTACCAGTGGCTCAGGCAGGAGGAGAAGTCCCTGGACCCCATGGTTTATATGAATGATAA
GTCCCCATTGACGCCAGAGAAGGAGGTGCGCTACCTGGAGTTCACAGGGCCCCACAGAAGCCCCCGAGGCTGGG
CGCACAGTCCATCCAGCCCACAGCTAACCTGGACCGGACTGATGACCTGGTGTACCTCAATGTATGGAGCTGGT
GCGGGCCGTGCTGGAGCTCAAGAATGAGCTCTGTGAGCTGCCCCCGAGGGCTACGTGGTGGTGGTGAAGAATGT
GGGGCTGACCCTGCGGAAGCTCATCGGGAGCGTGGATGATCTCCTGCCTTCTTGCCGTCATCTTACGGACAGA
GATCGAGGGCACCCAGAACTGCTCAACAAAGACCTGGCAGAGCTCATCAACAAGATGCGGGCTGGCACAGCAGAA
CGCCGTGACCTCCCTAAGTGAGGAGTGCAAGAGGCAGATGCTGACGGCTTCACACACCCCTGGCTGTGGACGCCAA
GAACCTGCTCGACGCTGTGGACCAGGCCAAGGTTCTGGCCAATCTGGCCCCACCCACCTGCAGAGTGACGGAGGGT
GGGGGCCACCTGCTGCGTCTTCCGCCCTGCCTGCCATGTACCTCCCGTGCCTTGCTGTTGGTCATGTGGGTCT
TCCAGGGGGAAGGCCAAGGGGAGTCACCTTCCCTTGCCACTTTGCACGACGCCCTCTCCCCACCCCTACCCCTGG
CTGTACTGCTCAGGCTGCAGCTGGACAGAGGGGACTCTGGGCTATGGACACAGGGTGACGGTGACAAAGATGGCT
CAGAGGGGGACTGCTGCTGCCTGGCCACTGCTCCCTAAGCCAGCCT

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FIGURE 2506

GAATTCCGCCGCTGACCGAGGCGTGCAAAGACTCCAGAATTGGAGGCATGATGAAGACTCTGCTGCTGTTTGTGG
GGCTGCTGCTGACCTGGGAGAGTGGGCAGGTCTTGGGGGACCAGACGGTCTCAGACAATGAGCTCCAGGAAATGT
CCAATCAGGGAAGTAAGTACGTCAATAAGGAAATTCAAATGCTGTCAACGGGGTGAAACAGATAAAGACTCTCA
TAGAAAAAACAAACGAAGAGCGCAAGACACTGCTCAGCAACCTAGAAGAAGCCAAGAAGAAGAGAGGATGCCC
TAAATGAGACCAGGGAATCAGAGACAAAGCTGAAGGAGCTCCCAGGAGTGTGCAATGAGACCATGATGGCCCTCT
GGGAAGAGTGTAAAGCCCTGCCTGAAACAGACCTGCATGAAGTTCTACGCACGCGTCTGCAGAAGTGGCTCAGGCC
TGGTTGGCCGCCAGCTTGAGGAGTTCCTGAACCAGAGCTCGCCCTTCTACTTCTGGATGAATGGTGACCGCATCG
ACTCCCTGCTGGAGAACGACCGGCAGCAGACGCACATGCTGGATGTCATGCAGGACCACTTCAGCCGCGCGTCCA
GCATCATAGACGAGCTCTTCCAGGACAGGTTCTTCAACCGGGAGCCCCAGGATACCTACCACTACCTGCCCTTCA
GCCTGCCCCACCGGAGGCCTCACTTCTTCTTCCCAAGTCCCGCATCGTCCGCAGCTTGATGCCCTTCTCTCCGT
ACGAGCCCCCTGAACTTCCACGCCATGTTCCAGCCCTTCCTTGAGATGATACACGAGGCTCAGCAGGCCATGGACA
TCCACTTCCACAGCCCGCCTTCCAGCACCCGCCAACAGAATTCATACGAGAAGGCGACGATGACCGGACTGTGT
GCCGGGAGATCCGCCACAACCTCCACGGGCTGCCTGCGGATGAAGGACCAGTGTGACAAGTGCCGGGAGATCTTGT
CTGTGGACTGTTCCACCAACAACCCCTCCCAGGCTAAGCTGCGGGCGGGAGCTCGACGAATCCCTCCAGGTGCTG
AGAGGTTGACCAGGAAATACAACGAGCTGCTAAAGTCCTACCAGTGGAAGATGCTCAACACCTCCTCCTTGCTGG
AGCAGCTGAACGAGCAGTTTAACTGGGTGTCCCGGCTGGCAAACCTCACGCAAGGCGAAGACCAGTACTATCTGC
GGGTCACCACGGTGGCTTCCCACACTTCTGACTCGGACGTTCTTCCGGTGTCACTGAGGTGGTCTGTAAGCTCT
TTGACTCTGATCCCATCACTGTGACGGTCCCTGTAGAAGTCTCCAGGAAGAACCCTAAATTTATGGAGACCGTGG
CGGAGAAAGCGCTGCAGGAATACCGCAAAAAGCACCGGGAGGAGTGAGATGTGGATGTTGCTTTTGCACCTTACG
GGGGCATCTTGAGTCCAGCTCCCCCAAGATGAGCTGCAGCCCCCAGAGAGAGCTCTGCACGTCACCAAGTAAC
CAGGCCCCAGCCTCCAGGCCCCCAACTCCGCCCAGCCTCTCCCGCTCTGGATCCTGCACTCTAACACTCGACTC
TGCTGCTCATGGGAAGAACAGAATTGCTCCTGCATGCAACTAATTCAATAAACTGTCTTGTGAGCTGAAAAAA
AAAAAAAAAAAAAAAAAAGGAATTC

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FIGURE 2507

MMKTLLLEFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKEIQNAVNGVKQIKTLIEKTNEERKTLLSNLE
EAKKKKEDALNETRESETKLKELPGVCNETMMALWEECKPCLKQTCMKFYARVCRSGSLVGRQLEEF LNQSSPF
YFWMNGDRIDSLEND RQQTHMLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFFFPKSRI
VRSLMPFSPYEPLNFHAMFQPFLEMIHEAQQAMDIHFHSPAFOHPPTFIREGDDDRTVCREIRHNSTGCLRMKD
QCDKCREILSVDCSTNNPSQAKLRRELD ESLQVAERLTRKYNELLKSYQWKMLNTSSLLEQLNEQFNWVSRLANL
TQGEDQYYLRVTTVASHTSDSDVPSGVTEVVVKLFDSDFITVTVPVEVSRKNPKFMETVAEKALQEYRKKHREE

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FIGURE 2508

ATAGTGACAAGTTTGGGAAGAAGGTCCAGCTATGGAGGAAGTTCATATGGGAATAGTACTAACAATGTCCCAGCAT
CTTCTCTACAGCTACAGCTTCCACACAGACGCAGCATTTCGGGAATGTCCTCCCGTCACCTAGCAACAGTTATGACA
CTTCCCCACAGCCTTGCCTACCAATCAAAATGGGAGGGAGAATAATGAGCGATTATCTACATCCAATGGAAAGA
TGTCACCAACTCGCTACCATGCAAACAGCATGGGTTCAGAGGTATACAGTTTTGAAGCCTCAGAAGAGGACCTAG
ATGTAGATGATAAAGTGGGAAGAATTAATGAGGAGGGACAGCAGTGTGATAAAAGAGGAAATCAAAGCCTTTCTTG
CCAATCGGAGGATTTCCCAAGCAGTTGTTGCACAGGTAACAGGTATCAGTCAGAGCCGGATCTCTCATTGGCTGT
TGCAGCAGGGATCAGACCTGAGTGAACAGAAGAAAAGAGCATTTTACCGATGGTATCAACTTGAGAAGACAAACC
CTGGCGCTACACTAAGTATGAGACCAGCCCCATTCCAATAGAGGACCCTGAATGGAGACAAACGCCTCCCCCAG
TCTCTGCCACATCTGGTACTTTCCGACTGCGACGAGGGAGTCGATTTACCTGGAGAAAGGAGTGCCTGGCTGTTA
TGGAAAGTTACTTCAATGAGAATCAATACCCAGATGAAGCAAAGAGGGAAGAAATTGCAAACGCTTGCAATGCAG
TTATACAGAAGCCAGGCAAAAAGCTGTCAGATCTGGAAAGAGTTACCTCCCTGAAAGTATATAATTGGTTTGCTA
ACAGAAGGAAGGAGATCAAGAGGAGAGCCAATATTGAAGCAGCAATCCTGGAGAGTCATGGGATAGATGTGCAGA
GTCCAGGAGGCCACTCAAACAGTGATGATGTCGACGGGAATGACTACTCTGAGCAGGATGACAGTACGAGCCATA
GTGACCACCAAGACCCCATCTCATTAGCTGTGGAAATGGCAGCAGTCAACCACACTATCTTGGCATTGGCCCGAC
AAGGAGCCAACGAAATCAAGACAGAGGCCCTGGATGATGACTGATCAGGGAGGTTAAACATGACAAGTTAACTTA
GTTTAGACGTAGCACCTTAGCAGACTTTCCCTCGGTCCTTAACATGTGTTCTTACAGTATAACTTGCAGTTTCTTG
TATGTAGGTAGCTGTTAGGGTCTTGTCTGTGAAGATGGCATGGTGCCCTCAGCCTTTGCATATACTCTCTCAG
TATTAACCTCCAGTAAATAATAACCAACCAACCAACCAACCAACTTCCCTCTCCCAGCCCCGAGGCTAGAAAA
TCTTGCTGCTCCGTCTTAGCATTCCAAGAGAGTGCTTCCAGGTATTTAGATAGCCCTCAGTTCTCAAATATTAGA
CTACGTGTAATACTTGGGTACCTTTAGATTCTTGTAACACTAGTCTGTACTCCCTTTTCCCTTCCCCAAGACTGA
TAGGATGCAAGCTGAGGTGCTGGCACAGGAATGACAGACACCATTGTTGGGAGTATCCACAGAGTCAAAGGAACAC
TAGAATCCCCACCTCAGCGTGAGGATAATTGATTTCAGCTGCAATAAGCCGTGCCTCATTATAGCCACACTGTG
GCTAGATTATACTTCTTTGGGTGCTGTGCTAAGAAATGTCAATGGAAAAAGCCGATCTCAGATTTGTTTGAAGTT
AACATGCCTGACACAGACATCCTTTCCCTCTCACAAGCTGTGTGACTTAGTAGATAAAATACTGCCTTCTGCCTTT
GGGACCATGATTAAAAACAAAGACAAAAACCAAAAGTCATTAAAAA

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FIGURE 2509

MSPSPSNSYDTSPQPCTTNQNGRENNERLSTSN GKMSPTRYHANS MGQRSYSFEASEEDLDVDDKVEELMRRDSS
VIKEEIKAF LANRRISQAVVAQVTGISQSRISHWLLQGS DLSEQKKRAF YRWYQLEKTNPGATLSMRPAPIPIE
DPEWRQT PPPVSATSGTFR LRGRS RFTWRKECLAVMESYFNENQYPDEAKREEIANACNAVIQPGKKLSDLERV
TSLKVYNWFANRRKEIKRRANIEAA ILESHGIDVQSPGGHSNSDDVDGNDYSEQDDSTSHSDHQDPISLAVEMAA
VNHTILALARQGANEIKTEALDDD

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FIGURE 2510

AGGTGGCGGAGATTGCACCGGAAGACGCTTCCTGGGTTTGAGGAGTTCAGTGACTGCTATTGAACCACCAAAAGT
CCATTATGAAACTGTATTGCCTGTCAGGGCACCCAACCTTACCATGCAATGTGCTCAAATTCAAATCAACCACCA
TTATGTTGGACTGCGGACTGGACATGACTTCTACCCTCAATTTTCCTTCCCTTTGCCACTTGTTCAAAGTCCCAGGC
TGTCCAATCTTCCTGGCTGGTCCCTGAAGGATGGAATGCTTTCTTGGACAAGGAGCTAAAGGAGTGCTCGGGTC
ATGTATTTGTGGATTCTGTGCCGGAATTCTGTTTACCAGAGACGGAGCTAATAGATCTGTCTACAGTAGATGTGA
TTCTCATCTCTAACTATCACTGTATGATGGCGCTGCCATACATCACCGAGCACACCGGCTTCACAGGCACAGTGT
ATGCCACGGAACCCACCGTCCAGATCGGCAGGCTTCTCATGGAAGAGCTGGTGAATTTCAATTGAAAGAGTGCCAA
AGGCTCAGTCTGCCTCCTTGTGGAAGAATAAGGACATTAGAGGCTGTTACCTTCTCCTCTCAAGGATGCAGTGG
AAGTCTCAACCTGGAGAAGATGCTATACAATGCAAGAGGTGAAGTCTGCCCTTAGTAAAAATCCAGCTGGTGGGAT
ATTCTCAGAAAATTGAGCTTTTGGTGCGGTCCAGGTGACTCCTCTGAGCTCTGGCTATGCCCTTGGGAGCTCCA
ACTGGATCATCCAGTCTCATTACGAGAAAGTGTCTTATGTCTCTGGATCCTCCTTGCTTACCACACACCCCCAGC
CCATGGACCAAGCTTCTCTCAAAAACAGCGATGTTCTTGTCTTGACAGGGCTTACCCAGATCCCCACTGCAAACC
CAGATGGAATGGTGGGAGAGTTCTGCAGCAACCTAGCTCTGACAGTCCGGAATGGAGGAAACGTGTTGGTTCCCT
GCTACCCTTCTGGAGTGATCTATGACCTCCTGGAGTGCCTATATCAGTACATCGACTCAGCCGGGCTTTCCAGCG
CCCCCTCTACTTCTATCTCCCCCTGTGGCCAAACAGTTCAGTGGAGTTTTCCAGATCTTTGCTGAGTGGCTTTGTC
ACAACAAACAGAGTAAGGTGTATCTTCCAGAACCACCTTTTCTCATGCAGAGCTCATTAGACCAATAAGCTGA
AGCACTACCCACAGCATCCACGGAGACTTCAGCAACGACTTTAGACAGCCCTGTGTGGTGTTCACCGGGCACCTT
CCCTCCGCTTCGGGGACGTGGTCCACTTCATGGAGCTCTGGGGAAAATCTAGTCTCAATACCGTCATATTCACGG
AACCAGACTTCTCCTACCTGGAAGCCCTGGCTCCTTACCAGCCGCTGGCCATGAAATGCATCTACTGCCCCATCG
ACACCCGGCTGAACCTTCATCCAGGTGTCAAAGCTGCTTAAAGAAGTGCAGCCCTGCACGTGGTGTGCTCCTGAGC
AGTACACTCAGCCGCCCCCAGCCAGTCCACAGGATGGACCTCATGATCGACTGCCAGCCCCCGCCATGTCCT
ATCGGCGGGCTGAGGTTCTCGCCCTGCCCTTCAAACGTCGGTACGAGAAGATCGAGATCATGCCAGAGCTCGCAG
ATTCAGTGGTGGCCATGGAGATCAAGCCTGGCATCTCCTTGGCAACTGTCTCGGCCGTGCTGCACACCAAAGATA
ACAAGCACTTGCTTCAGCCCCCTCCTCGGCCCGCCCAGCCACGAGCGGGAAGAAGAGAAAGCGGGTGAGCGATG
ACGTACCAGACTGCAAAGTCTGAAGCCTTTGTTGAGCGGTTCCATCCCTGTGGAGCAGTTTCGTGCAGACCCTGG
AGAAGCATGGCTTCAGTGATATTAAGGTGGAGGACACAGCCAAGGGCCATATCGTCCTGCTCCAGGAGGCTGAGA
CGCTCATCCAGATTGAAGAAGACTCGACCCATATCATCTGCGACAATGACGAGATGCTCAGAGTGCGACTGCGGG
ACCTTGTCTCAAATTTCTTACAGAAGTTCTTGAGTGGGCCATCTGAGCTACTTCCCTGAAATCCTGCAGTCCCTCA
CTGGCTGCCCTCACAAGCCACCTGAGGAGTGGCATGAGAGGCCATTAAGTGTGTCTTTGTGGTGTCTCTGGCTT
AAGGAGTGAAGAGGTGGCTCTTGAGGGAAATGGTCTGGACTTATCCCAGCACTGTTTCAGGCAAGAACTTTCCC
TTTCAACTTCAGGCTCATTTTCTTCTCAACTCTGGCTCTCTCAAGGAGCTGGAGGGTGACAGAAGTGGGACAGGA
GAAGTTTTCCAAGAGGTTTCATGGGAGGCGGAGGTGACTGGCTGGCTGTCTTGATCAGTCCCAGGCCTCGGCCAG
GGGAGCCAGCCTTTGGTTTCGTTTACTTGCTACAGTGTGTACGCAATAAGATGATGATCCCAAAATATGGTAA
AGTGAACCCATCTGTCTGCATTTTCTACTCTGAGCCCATTTGTTAATAAACACTTATTTTTATAT

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FIGURE 2511

MKLYCLSGHPTLPCNVLFKFKSTTIMLDCGLDMTSTLNFLLPLVQSPRLSNLPGWSLKDGNFLDKELKECSGHV
FVDSVPEFCLPETELIDLSTVDVILISNYHCMMALPYITEHTGFTGTVYATEFTVQIGRLLMEELVNFIERVPA
QSASLWKNKDIQRLLPSPLKDAVEVSTWRRCYTMQEVNSALSQIQLVGYSQKIELFGAVQVTPPLSSGYALGSSNW
IIQSHYEKVSIVSGSSLLTTHPQPMQASLKNSDVLVLTGLTQIPTANPDGMVGEFCSNLALTVRNGGNVLVPCY
PSGVIYDLLECLYQYIDSAGLSSAPLYFISPVANSSLEFSQIFAEWLCHNKQSKVYLPEPPFPFAELIQTNKLKH
YPSIHGDFSNDFRQPCVVFTGHPSLRFQDVVHFMELWGKSSLNTVIFTEPDFSYLEALAPYQPLAMKCIYCPIDT
RLNFIQVSKLLKEVQPLHVVCPEQYTQPPPAQSHRMDLMIDCQPPAMSYRRAEVLALPFKRRYEKIEIMPELADS
LVPMEIKPGISLATVSAVLHTKDNKHLQPPPRPAQPTSGKKRKRVSDDVPDCKVLKPLLSGSIPVEQFVQTLEK
HGFSDIKVEDTAKGHIVLLQEAETLIQIEEDSTHIICDNDEMLRVRLRDLVLKFLQKF

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FIGURE 2512

CTGACACAGGGAGTTTGTCTTGTGTGCAAAACAATTTCCAAGGCGAGCGTTTTCTTCCCTGGCTGGGAGTGCAGGGGCTCA
GCGCCTTCACTTTGGAAGTGAAGTCAAGAGACCTAAAGAAGCCACCTGGCCAGCGGGAAGGGGGGCGCCGCCGCC
TCCCGGTTTTTGGGCAGCCCTGGCCAGCTCCCTGTGGCCTTGGAGGACTTCCACCGGGCAGGCGTTCCCATGATGC
CAGGCTACCAGGCGCGGGGATTCTCTGCAGGCCGGCGCTGCTTTTCTTAGAACCCCTTTCTAGAAAAGTACACC
TGGAGGTTTTTGTCTTCAAAGAGAGGAGAGGCAGCAGCATGGCGAGTGTCTGTCTCCGACGCCTTGGAAAGCGGTCC
CTCCTGGGAGCCCCGGGTGTTGGGACCCAGTGCCCTCGGAGGGGCCCTCGGCTGCCCCACCCTCGGAGCCACTGCTA
GAAGGGGCGCGCTCCCCAGCCTTTACCACCTCTGATGACACCCCTGCCAGGAGCAGCCCAAGGAAGTCTTAAAG
GCTCCAGCACCTCGGGCCTTCAGCAGGTGGCCTTTCAGCCTGGGCAGAAAGTTTATGTGTGGTACGGGGGTCAA
GAGTGCACAGGACTGGTGGAGCAGCACAGCTGGATGGAGGGTCAGGTGACCGTCTGGCTGCTGGAGCAGAAAGCTG
CAGGTCTGCTGCAGGGTGGAGGAGGTGTGGCTGGCAGAGCTGCAGGGCCCCCTGTCCCCAGGCACCACCCCTGGAG
CCCGAGCCCAGGCCCTGGCCTACAGGCCCGTCTCCAGGAACATCGATGTCCCAAAGAGGAAGTCGGACGCAGTG
GAAATGGATGAGATGATGGCGGCCATGGTGTCTGACGTCCCTGTCTGCAGCCCTGTTGTACAGAGTCTCTCCCGGG
ACCGAGGCCAACTTCTCTGCTTCCCGTGGCGCCTGCGACCCATGGAAGGAGAGTGGTGACATCTCGGACAGCGGC
AGCAGCACTACCAGCGGTCACTGGAGTGGGAGCAGTGGTGTCTCCACCCCTCGCCCCCCCCACCCCCAGGCCAGC
CCCAAGTATTTGGGGGATGCTTTTGGTTCTCCCCAAACTGATCATGGCTTTGAGACCGATCTTGACCCTTTCTCTG
CTGGACGAACCAGCTCCACGAAAAAGAAAGAACTCTGTGAAGGTGATGTACAAGTGCCTGTGGCCAAACTGTGGC
AAAGTTCTGCGCTCCATTGTGGGCATCAAACGACACGTCAAAGCCCTCCATCTGGGGGACACAGTGGACTCTGAT
CAGTTCAAGCGGGAGGAGGATTTCTACTACACAGAGGTGCAGCTGAAGGAGGAATCTGCTGCTGCTGCTGCTGCT
GCTGCCGCAGGCACCCCAGTCCCTGGGACTCCCACCTCCGAGCCAGTCCCACCCCCAGCATGACTGGCCTGCCT
CTGTCTGCTCTTCCACCACCTCTGCACAAAGCCAGTCTCTCGGCCCAGAACATCTGGCCCCGAGTCTCTCCCTG
CCCTCAGGGGCTCTCAGCAAGTCAGTCTCTGGGTCTTCTGGCACATTACAGGCAGATCATGCATACCAGGCTCTG
CCATCCTTCCAGATCCCAGTCTCACCACACATCTACACCAGTGTGAGTGGGCTGCTGCCCCCTCCGCCGCTGCTG
TCTCTCTCTCCGGTCCGGAGCCGGTCTGCTAAGCTTCAGCGAGCCCCAGCAGCCAGCACCTGCGATGAAATCTCAT
CTGATCGTCACTTCTCCACCCCGGGCCAGAGTGGTGCCAGGAAAGCCCCGAGGGGAGGCTAAGAAGTGCCGCAAG
GTGTATGGCATCGAGCACCGGGACCAGTGGTGCACGGCGTGCCGGTGGAAAGAGGCCTGCCAGCGCTTTCTGGAC
TGAGCTGTGCTGCAGGTTCTACTCTGTTTCTGGCCCTGCCGGCAGCCACTGACAAGAGGCCAGTGTGTACCAGC
CCTCAGCAGAAACCGAAAGAGAAAGAACCGAAACACGGAGTTTGGGCTCTGTTGGCTAAGGTGTAACACTTAAAG
CAATTTTCTCCCATTTGTGCGAACATTTTATTTTTTAAAAAAA

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FIGURE 2513

MASVLSRRLGKRSLLGARVLGFSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQEQPKEVLKAPSTSGLQQVAF
QPGQKVYVWYGGQECTGLVEQHSWMEGQVTVWLLEQKLQVCCRVEEVWLAELQGPCPQAPPLEPGAQALAYRPVS
RNIDVPKRKSDAVEMDEMMAAMVLTSLSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSS
GVSTPSPPHQASPKYLGDAFGSPQTDHGFETDPDPFLLEPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRH
VKALHLGDTVDSQFKREEDFYYTEVQLKEESAAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQ
SSGPEHPGPESSLPSGALSKSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSF
SEPQQPAPAMKSHLIVTSPPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRFID

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FIGURE 2514A

ATGCTCCATGCTGCAAGCTGCAAGGAGAGCCCAGGAGGGGTGTCCTCCTGGTGGAAAGTTGCGCTTGTGGAAGATG
ATTTATATAAAGAACGAACGAGAAAAAGAAGGAAATCAGATCGAGACCAGCGTTCCGAGCATTTCCCTCCATGG
AGCAGAGTGCTCTTAAGGAATATGAAAAATTGGAATCACGGACCAGAAGGGTTTTGAGCAACACTTATCAGAAAC
TTATTCAGTCTGTCTTCCTGGATGACAGCATCCCTAATGGAGTCAAGTATCTCATAAATAGGCTTCTTGCCTTGA
TTGAAAAGCCGACAGTGGACCCAATCTACATTGCATTATTTGGAAGCACTGGGGCTGGGAAGAGCTCCCTGATCA
ATGCCATCATCCAGCAAGCAATGTTTCTACCAGTGTCTGGAGAAAAGCATATGTACTTCCTGCATTGTACAAGTGA
GCTCTGGCTGCTGTGTGCAGTATGAGGCCAAAATCCACCTTCTGTCTGACCAGGAGTGGAGGGAGGAGCTGAAGA
ACCTGACCAAACCTCCTGCATAGGACGGAGGAGCTGAGCAGAGAAGAGGCAGATGCGTGGAAACAGGGATGAGGCAG
TGGAGGAAGCCACCTGGAAGCTACAAATGATTTATGGAAATGGGGCAGAGAGTAAGAACTATGAGGAGTTACTGA
GGGCGAAGCCCAAAAGGAAGATCCCCACCTCCAGAGTCATCACCTCAAGGCGGAAGAGGCAGAAGAGCTGTCCA
TCAAGCTGGACCCCTACATCCGCACACAGAGGAGAGATTGGGATGGAGAGGCCGCTGAGATGCGCATCTGGCCCT
TGATCAAACATGTGGAAGTGACACTTCCCAAATCCGACCTGATCCCAGAAGGGGTCTGTCTGGTGGACATCCAG
GCACAGGCGACTTCAACAGCAAGAGGGACGAGATGTGAAAAAGACCATTGACAAGTGCTCAGTGATCTGGGTGA
TCAGCGACATAGAGCGAGTTTTCTGGGGGGCAAGCCACGAAGACCTTCTGAATGAGAGCATCAAAGCCTGCCAGC
GGGGCTTCTGTAGGGACGTGGCCCTGGTGGTCAACAGATGGACAACTCCACTTGCCAGAATACCTAAGGTCTCT
CAAAAGTTTTAGAACTTCGGGAGAAGAGAAAAGTCCAGCTGACTTCAAGGTTCTGGAAGCCTCAGATCTGGTGT
ATACAGTCAGCGCCCAGGAGTACTGGCAGCAGGCTCTCCTCACCGAGGAGGAAACGGAAATCCCTAAGTTAAGAG
AATACATCAGGAAGAGCCTCTTGGACAAGAAGAAGAGGACAGTGACCAAGTATGTGACTGAAGCCTTTGGCCTGT
TGCTCCTCACAGATAGTTTTCAACTCCACGCAAAACCTGCCGAATGAACACTTGCACATGAGTGTCTGCGGAGAT
TTGCGGAAGAGAAGGTTGAGCTGCTGGAGAAGGCCATCGCACAGTGCTTCGCCTGCATGGAGCAGCCTCTGCAAG
AAGGGGTCTAGGACCGCCAGGACTTCTTACCGCTGCATCCTCAGAGCATGCTTGGTGAGGAGTAAAGGAAACCAAG
GTTTTTCATCAGACCCTGAAAGCTGTTTGCCTGAAAAATGGCATCTATGCCCTCCAGGACTCTGGCGAGAATTGATC
TAAATGAAGCCCTCACTCAGCCCGTCTATGACCAGATCGACCCTGTTTTTGGAAAGCATTTTTAGGACGGGGGAAGC
CCACTGGTTTCAGCTCTGATGCCTCACATAGATGCTTTTAAGCAGTCCCTGCAGGAGAAAATGACAGAAATTGGGA
TAAGAAGTGGCTGGAAATATGATAGCTGCAAAAAAATTTCTGATCCAGGAGATAAGTGCCATCCTCGGGGGCC
TGGAGGACCACATCCTCAGAAGGAAGAGGAGGATCTACGAGTCCCTCACTGCCTCTGTCCAGAGTGACCTGAAGC
TCTGTTACGAAGAGGCAGCTCAGATCACGGGCAAAAAAGCGTGTGAGCGGATGAAAGATGCCATCAGAAGAGGAG
TGGACCGGCAGGTGGCTGAGGGCATGTTTGAAGGGGCCAGGAAAGGATGCAGCACCAGTTTCAGCAGCTGAAGG
TACTCTATGCCCACATCCTGGATCCTAGACCCCGAGAGGCTCCGGGGGAGGAGAGGAAGCGAGTGCAAGACTG
GAATCGTGGAAGAAGGTGAAGGGCAGCATCACCCTATGCTGGCCCTTGCTTCGTCCCAGGGGGATGGCCTCTACA
AGGAGCTTGCAGGGCTGAGCTGCAGGATGGGAGACAATGACAAATGGGACGTGGCCCTTCTCAGGAAGGGGAC
AGCTGTTGCAGGGTGTGATGGAGAACAAGCTATGTACCTACACACCGTCAGCGACTGTGACACCAGCTCCATCT
GTGAGGATTCTTTGATGGCAGGAGCCTGTCCAAGCTGAACCTGTGTGAGGATGGTCCATGTCACAAACGGCGGG
CAAGCATCTGCTGTACCCAGCTGGGGTCCCTGTGCGCCCTGAAGCATGCTGTCTGGGGCTCTACCTGCTGGTCT
TCCTGATTCTTGTGGGCATCTTCATCTTAGCAGCCTGCTGCCACGCGTGCAGTTCCCAGAGGACATGACCCAGG
GCTTGCCAGCCCGTGCACGCATTTACCCCTTGTATCCTGGGAGGTCCCTGACAGCAGAGGGTCCCTGGTACCTGG
GAACAGCCAGGGACAGAAGCTGGGACCCAGGAGCTGTGCAGCAGGGGCTGAGTTGTCTGGGGAGAGCGCTTACC
TGCCCACTCCTGTCCCCGGGGATCGGGACTTCCAGAGGGTGAAGTGTCCAGGCCGCGCAGCTCCCCTGACGACC
TGAAGGCCCTGACTCGCAATGTGAACCGGCTGAATGAGAGCTTCCGGGACTTGCACTGCGGCTGCTGCAGGCTC
CGCTGCAAGCGGACCTGACGGAGCAGGTGTGGAAGGTGCAGGACGCGCTGCAGAACCAAGTCAGACTCGTTGCTGG
CGCTGGCGGGCGCAGTGACGCGGCTGGAGGGCGCGCTGTGGGGCTGCAGGCGCAGGCGGTGCAGACCGAGCAGG
CGGTGGCCCTGCTGCGGGACCGCACGGGCCAGCAGAGCGACACGGCGCAGCTGGAGCTCTACCAGCTGCAGGTGG
AGAGCAACAGTAGCCAGCTGCTGTGAGGCGCCACGCGGGCCTGCTGGACGGGCTGGCGCGCAGGGTGGGCATCC
TGGGCGAGGAGCTGGCCGACGTGGGCGGCGTGTGCGCGGCCTCAACCACAGCCTGTCTTACGACGTGGCCCTCC
ACCGCACGCGGCTGCAGGACCTGCGGGTGTGGTGTGAGCAACGCCAGCGAGGACACGCGCCGCTGCGCCTGGCGC
ACGTAGGCATGGAGCTGCAGCTGAAGCAGGAGCTGGCCATGCTCAACGCGGTACCGAGGACCTGCGCCTCAAGG
ACTGGGAGCACTCCATCGCACTGCGGAACATCTCCCTCGCGAAAGGGCCACCGGGACCCAAAGGTGATCAGGGGG
ATGAAGGAAGGAAGGCAGGCTGGCATCCCTGGATTGCCTGGACTTCGAGGTCTGCCCCGGGAGAGAGGTACCC

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FIGURE 2514B

CAGGATTGCCCCGGGCCCAAGGGCGATGATGGGAAGCTGGGGGCCACAGGACCAATGGGCATGCGTGGGTTCAAAG
GTGACCGAGGCCCAAAAGGAGAGAAAGGAGAGAAAGGAGACAGAGCTGGGGATGCCAGTAAGGACATTCTGCTGG
GGCCGTGGGATATGATCATTACACGATTACTCTTGGCCATGCAGTACACATCAGACACTTCAACTGCCTTCTCTT
CAGTTGCTCATATCAGCTGA

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FIGURE 2515

CTTCCTGCCGCCGCGTTTCGCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCA
GAGAAAAAAAAAATTACTTATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGA
GGGAAATCGTGCACATCCAGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATG
AACATGGCATCGACCCCACTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACA
GTGAAGCCACTGATGGCAAATATGTTCTCGTGCCATACTGGTGGATCTAGAACCCCTTCCCACGTCTCCATTTC
TTTATGCCTGGCTTTGCCCCCTCTCACCAGCCATGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACTCACC
CAGCAGGTCTTCGATGCCAAGAGCATGATGGCTGCCTGTGACCCCGCCACGGCCGATACCTCACCCTGGCTGCT
GACTTCCGTGGTCGGATGTCCATGAAGGAGGTCGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTAC
TTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTC
ACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAAGCACATCTCGGAGCAGTTCACTGCCATGTTCCGC
CGGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGA

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FIGURE 2516

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGSDLQLDRISVYYNEATGGKYVPRAILVDLEPGSHVS
ISLCLALPLSPAWEASSIELSQCRNSPSRSSMPRT

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FIGURE 2517

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTT
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTTCCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTGCTCAGGTCCTTTTGGCC
AGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAG
AGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCT
TCCAGCTCCCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCGGATGTCCATGAAGGAGGTCGA
TGAGCAGATGTTTAACGTGCAGAACAAAGACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGACAGC
TGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCT
CTTCAAGCACATCTCGGAGCAGTT

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FIGURE 2518

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMD
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGT
LISKIREEYPDRIMNTFSVVPSPAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEA

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FIGURE 2519

GCACCTCGCTGCTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAAAATTACTT
ATTTTCTTGCCCCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCC
AGGCTGGTCAGCGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCCA
CTGGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCCGTGTACTACAGTGAAGCCACTGATGGCA
AATATGTTTCCTCGTGCCATACTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTCGCTCAGGTCCTTTTGGCC
AGATCTTTAGACCCGCCACGGCCGATACCTCACCGTGGCTGCTGACTTCCGTGGTCCGATGTCCATGAAGGAGGT
CGATGAGCAGATGTTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAAATATCAAGAC
AGCTGTCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGA
GCTCTTCAAGCACATCTCGGAGCAGTTCCTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACAC

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FIGURE 2520

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPATADTSPWLLSSVVGCP

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FIGURE 2521

CTCCAGCATCTAGGGCATATTCCAACCTTCCAGCCTGCGACCTGCAGAGAAAAAAATTACTTATTTTCTTGCC
CCGTACATACCTTGAAGTGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGGTCAG
CGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGTCCATGAAGGAGGTCGATGAGCA
GATGTTTAAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATATCAAGACAGCTGTCTG
TGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATCGGCAGTAGCACGGCCATCCAGGAGCTCTTCAA
GCACATCTCGGAGCAGTTCAGTCCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACACAGGCCGAGGGCATGGA
CGAGATGGAGTTCACCGAGGCTGACAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCAC
CGCAGAAGAGGAGGAGGATTTCCGGTGAGGAGGCCAAAGAGGAGGCCTAAGGCAGAGCCCCCATCACCTCAGGCTT
CTCAGTTCCTTAGCCGTCTTACTCAACTGCCCCTTCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTG
TTTTTGTCTTTTCTTCTGGGGAGGGTCTAGAACAGTGCCTGGCACATAGTAGGCACTCAATAAATACTTGTGTTG
TT

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FIGURE 2522

MREIVHIQAGQRGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYSEATDGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVIESYNATLSVHQLVENTDETYCIDNEALYDICFRTL RVTTPTYGDL
NHLLRDTMSGVTTCLRFPGQLNADLCKLAVNMVFPRLHFFMPGFAPLTSHGSQQYRALTVPELTQQVFDAKSMM
AACDPRHGRYLTVAADFGRMSMKEVDEQMFNVQKNSSYFVEWIPNNIKTAVCDIPPRGLKMAVTFIGSSTAIQ
ELFKHISEQFTAMFRRKAFLHWYTGEGMDEMEFTEADSNMNDLVSEYQQYQDATAEEEEEDFGEEAKEEA

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FIGURE 2523

GGGGACGCCGAGGGCGGCTGCGACGCGCCGAGAGGCCGCGGCTCTCCACCTGTCACCCTGGCCCTTCTCTGCTT
GGATGGTGTCTTCTCTCCTCAGCCGAGAATGACTTCGTCCACCGGATCCAGGAGGAACTGGACCGCTTCTGCT
GCAGAAGCAGCTGTCAAAGGTTCTTCTTTTCCCCCACTCTCCAGTCGCCTCCGGTACCTGATCCATAGAACAGC
AGAGAATTTTGATCTCTTGAGCAGCTTCTCCGTTGGGGAGGGCTGGAAGAGGAGGACGGTCATCTGTCACCAGGA
CATCAGGGTACCCAGTTCCGATGGCCTCTCTGGCCCCTGCCGCGCTCCTGCCTCCTGCCCCAGCAGGTACCACGG
TCCTCGGCCCATCTCCAACCAAGGAGCAGCTGCGGTTCCCCGAGGTGCCCGGGCTGGCCGGTGGTATCGTGGACG
CAAGCCTGACCAGCCTTTGTATGTGCCCCGGGTGCTGCGCAGGCAGGAAGAATGGGGGCTGACCTCTACCTCGGT
GCTCAAGAGAGAGGCCCCAGCTGGCAGGGACCCAGAAGAGCCTGGAGATGTTGGTGCTGGAGACCCCAACTCTGA
TCAGGGACTCCCTGTGCTGATGACTCAGGGAACAGAGGACCTAAAGGGGCCAGGACAAAGGTGTGAGAATGAGCC
ACTGCTGGACCCGTGTTGGCCCTGAGCCTCTGGGGCCTGAGAGTCAGTCAGGGAAGGGAGACATGGTGGAGATGGC
CACACGGTTTGGGTCCACCCTGCAGCTAGACCTGGAAAAGGGGAAGGAGAGTCTGTTGGAGAAGAGGCTGGTGGC
AGAGGAGGAAGAGGACGAAGAGGAGGTGGAAGAGGATGGCCCCAGCAGCTGCTCGGAGGACGATTACAGTGAGCT
GCTGCAGGAGATCACAGACAACCTGACGAAGAAGGAGATTCAGATAGAGAAGATCCATTTGGACACATCCTCCTT
CGTGGAGGAGCTGCCTGGAGAGAAGGACCTTGCCACGTGGTAGAGATCTATGACTTTGAACCAGCGCTCAAGAC
GGAGGACCTGCTGGCAACGTTTTCTGAGTTCCAAGAGAAGGGGTTTCAGGATTCAGTGGGTGGATGATACTCACGC
ACTCGGCATCTTTCCCTGCCTGGCCTCAGCTGCGGAAGCCCTGACCCGGGAGTTCTCGGTGCTCAAGATCCGGCC
CCTCACACAGGGAACCAAGCAGTCAAAGCTCAAAGCCTTGCAAGAGGCCAAACTCCTGCGTCTGGTGAAGGAGAG
GCCACAGACAAATGCGACTGTGGCCCGGCGGCTGGTGGCCCGGGCCCTGGGACTCCAACACAAAAAGAAAGAGCG
GCCTGCTGTCCGGGTCCGCTGCCGCCCTGAGGCGCTGGAGACCCAAGTGGCCTGGATCTGCGTCCCGACGTAGCT
GGCGCCCCAACACCATAAGCCTTCACAGACGCCAGAGCAGCCCCGACCACCCTCGAGCTTCACCATGGGGTGT
GGTGGGCTTTAGTTTAGTCCCAGAAATGGAGAAAAAATAAAAACTCACGTTGTTCT

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FIGURE 2524

MTQGTEDLKGPQRCENEPLLDVGPPEPLGPESQSGKGDVEMATRFGSTLQDLKESLLEKRLVAEEEEDE
EEVEEDGPSSCEDDYSELLQEITDNLTKKEIQIEKIHLDTSSFVEELPGEKDLAHVVEIYDFEPALKTEDLLAT
FSEFQEKGFRIQWVDDTHALGIFPCLASAAEALTREFSVLKIRPLTQGTKQSKLKALQRPKLLRLVKERPQTNAT
VARRLVARALGLQHKKKERPAVRGFLPP

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FIGURE 2525

CAGGTACCTGGGGGTGGTTAAGTTGGTGACATGGCTCAGAAGTTTATTTCTTTAAATTTTAAAGTTTTTTTCTT
TTTAGTCTTCAGAAAGGCAACAGTAGTCTTTTAACTGCTGTTAAAAGTGTAAGACTCTTTTACTCCCTGAGAG
TCCCCCTTCCCTTTCTTGCCTCCTTTCTTTATTTCTTTTTTTTTTTTTTTTTTTTACTGAGACGGAGTCTCAC
TCTGTGCCCCAGGCTGGAGTGCACTGGCGCGATCTCGGCTCACTGCAAACCTCCGCCTCCCGGGTTCACCCCTTCT
CTTTATTCTTATCCCGGTCAGACTCGCCCCCTCCTCCAAGACATCTCTCTGTTTTATTTTATTTGATTTTAGTTC
TCTTTGGGTGATCGCTCCTTCCCTCTTCAACGGATCCCTCCCCGCCTCCATCCTCGTTCGTGAGAGAGACCAGC
CTTCTGGTGCTGCAGTCAGGAATGGAGCTTGACAGCGCTCTGGAAGCCCCATCGCAGGAAGACTCTAATTTGTCC
GAGGAGTTGTCTCACTCCGCCTTTGGACAGGCCTTCTCCAAGATTTTACACTGTCTTGCCCGCCCGGAGGCACGA
CGAGGCAATGTAAAAGATGCAGTTCTTAAAGACCTCGGTGATCTAATAGAAGCCACAGAATTTGATAGGTTATTT
GAGGGGACTGGTGACGGCTCCGCGGAATGCCGGAGACTGGGGCAGGTAGCAAAAGCCCTGGAGAAGTATGCA
GCCCCCTCCAAGGAGGAGGAAGGTGGAGGTGATGGGCACCTCCGAAGCGCCGAGAAAGCAGCCCAAGTTGGGTTA
CTGTTTCTTAACTGTTAGGGAAAGTTGAGACTGCTAAGAATTCCCTGGTCCGCCCTGCATGGCAGACGGGCCTG
CATCACTTGGCAGGACCCGTTTATATTTTTGCCATCACACACAGCTTGGAGCAACCATGGACCACTCCGAGATCT
CGGGAAGTTGCTAGGGAGGTGCTCACCTCACTGCTTCAAGTTACTGAATGCGGTTCTGTGGCAGGATTCTACAT
GGAGAAAATGAAGATGAGAAAGGGAGACTTTCCGTGATACTAGGGCTTCTCAAACCCGACTTGTATAAGGAATCC
TGGAAGAATAACCCTGCCATCAAACATGTTTTCTCATGGACTCTGCAACAGGTCACTCGGCCCTGGCTGAGCCAG
CATCTGGAAGGGTACTTCCCGCATCATTGGTCATTTGAGATGACTATCAGACTGAGAACAAAATCCTGGGTGTA
CACTGTCTCCATCACATTGTGCTTAATGTG

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FIGURE 2526

ATGTCCGGGGGCAGCAGCTGCAGCCAGACCCCAAGCCGGGGCCATCCCCGCCACTCGCCGGGTGGTGCTCGGCGAC
GGCGTGCAGCTCCCGCCCGGGGACTACAGCACGACCCCGGCGGCACCGTCTTCAGCACCACCCCGGGAGGTACC
AGGATCATCTATGACCGGAAATTCCTGATGGAGTGTCGGAATCACCTGTGACCAAAACACCCCAAGGGATCTG
CCCACCATTCCGGGGGTCACCAGCCCTTCCAGTGATGAGCCCCCATGGAAGCCAGCCAGAGCCACCTGCGCAAT
AGCCCAGAAGATAAGCGGGCGGGCGGTGAAGAGTCACAGTTTGAGATGGACATTTAA

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FIGURE 2527

AAGTGTCCCCTCCTACTTCTTGCTGCCTCACGGTTGCTGTTGCAGACCCAGGAGTCTCTGAAGGCTTCCGCGGGCT
TTGGGGCCGGTTGTGAGATGCCAGGCAGAGGCCGCTGCCCGGACTGCGGCTCCACGGAGCTGGTGGAAGACTCGC
ACTATTGCGAGAGCCAGCTGGTGTGCTCCGACTGCGGCTGCGTGGTCACCGAGGGGGTCCCTTACCACTACCTTCA
GCGACGAGGGCAATCTCCGAGAGGTAACATATTCCCGAAGCACAGGGGAAAACGAACAAGTTAGTCGCAGCCAGC
AACGAGGTCTCCGGCGAGTGAGAGACCTTTGTGCGAGTTCTGCAGTTGCCACCAACATTTGAGGATACCGCGGTG
CCTACTACCAACAGGCATATCGGCCTCTGGCATCCGAGCGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGT
GCTGCGTCTTAATCACCTGCCGACAGCATAACTGGCCCCCTAACAAATGGGGGCCATCTGCACGCTGTTGTATGCAG
ATTTGGATGTGTTTTCTAGCACTTGCAATGCAGATAGTGAAGCTCCTGGGACTGGATGTGCCATCTCTGTGCTTGG
CAGAACTGGTGAAGACCTATTGCAGCAGCTTCAAAGCTTCACTTCTGTGCCAGCCAAATACGTGG
AAGACAAAGAGAAGATGCTGTCTCGAACAATGCAGTTGGTGGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGA
GGCATCCCTTGCCCGTCACTGCTGCGACTTTCCTGGCTTGGCAGTCGCTGCAGCCTGCAGATCGGCTTTCAT
GTTCCCTTGCCCGATTTTGTAAATTGGCAAATGTGGACCTGCCCTACCCGGCGTCTCTCCGCTGCAGGAGCTGC
TGGCTGTGCTGCTGCGGATGGCTGAGCAGCTGGCCTGGTTACGAGTTCTGAGACTTGACAAACGGTCTGTGGTGA
AGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACTGGTCCGCTCTGCCTTTCGGGATGGGACAGCAGAAGTGG
AGACCCGAGAGAAGGAGCCACCGGGGTGGGGACAGGGGCAAGGAGAAGGGGAGGTGGGAAATAATTCCCTTAGGTT
TACCCAGGGGAAGCGGCCCGCCAGTCTGCCCCTTCTCTTGCCACCCTGCATGTTGAAGTCCCCGAAGCGGATCT
GCCCTGTACCCCTGTCTCCACTGTCACTGGAGATGAGAACATTTCTGATAGTGAAATAGAACAGTATTTGCGTA
CCCCTCAGGAAGTTAGGGACTTTCAGAGAGCCCAGGCTGCTAGACAGGCTGCCACGAGTGTCCCTAACCCCTCCCT
GATGGATATCCACTGGGAGCACTTCATCCTGTTCTGACAGCTTGATAACATTCCTGTTATAACCAAGGATGGAAG
TGTACACCAGTCCGTAGGTATTGCTTTTCTTGTGTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCCCTGG
GTCCTGGAGTAAAGTCAGGAGTGACAGGGATGACTATAGGTAGGAGAGATTCCCATCCCTTGGTGTGGGAGAGCAA
GTTGCCTATGTCCATGTTCTGTGAGATGGCTTTCCTCATAGATGGATGGGAAAATGTCAGGCTCTTTGCTGCTGG
TTTGAATTGGACACACTGCTGCGGCTCCTCCTGCAGGCCTGAGGGGGCTTCCCTCTGCTTGTGGAGTGGTTGGCA
TTCCCAGCAGTATCAACCCTCAGAGGAGCGGGAACTGGGGAATTCTGGCCCTACGTGCATTACAGGCAATGATG
GGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCA
AAGGGCTTTGCAAAATTTTAATATATTAATAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATAAAACCCGAG
TTCTT

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FIGURE 2528

MPGRGRCPDCGSTELVEDSHYSQSQLVCSDCGCVVTEGVLTTF SDEGNLREVTYSRSTGENEQVSR SQQRGLRR
VRDL CRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYADLDVFS
STYMQIVKLLGLDVPSLCLAE LVKTYCSSFKLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLV TGRHPLPV
ITAATFLAWQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLR LDKRSVVKHIGDL
LQHRQSLVRS AFRDGTAEVETREKEPPGWGQGQGEGEVGNNSLGLPQGKRPASPALLLP CMLKSPKRICPVPPV
STVTGDENISDSEIEQYL RTPQEV RDFQRAQAARQAATSVPNPP

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FIGURE 2529

TTCATTGCGCCAGTGACTAAAAAGAGAATTAAATATGGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAA
GTGTTCCCAGTGCCACACTGTTGAAAAGGGAGGAAAGCACAAAGATTGGGCCAAATCTCCATGGTCTTTTCAGGTG
GAAGACAGGTCAGGCCCCCTGGATACTCTTACACAGCCGCCAATAAGAACAAATGCATCATCTGGGGAGAGGATAC
ACTGATGGAGTATTTGGAGAATCCCAAGAAGTACATCCCTGGAACAAAAATGATCTTTGTCAGCATTAGAAGAA
GGAAGAAAGGGCAGACTTGATAGCTTATCTCAAAAAAGCTACTAATGAGTAATAATTGGCCACTGCCTTATTTAT
TACTACACCAGAATTCAGATCATGAATGACTGACAGAATATTTT

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FIGURE 2530

GCGACCCCTCTTCTTTGCGTAGAGTTTTTCAGGTTGCTCCTGGAAACCATGCCGAAAGTAGTGTCTCGGTCAGTAG
TCTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTGTACTACTGTTTGTGCG
GCCAGGTGGTCCTAGTGCTGGACTGTCAGTTAGAGAAATTGCCCATGAGGCCCCGGGACCGGTCCCGTGTGATTG
ATGCTGCCAAACATGCCCATAGTTTTGTAAACACAGAAGACGAAGAGACTATGTATCTGCGGAGACCTGAAGGCA
TTGAACTACAGTACAGAAAGAAATGTGCAAAGTGTGGACTGCTGCTCTTCTACCAATCCCAGCCGAAGAATGCTC
CCGTTACCTTCATTGTGGATGGAGCAGTCGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGA
AACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCTGTCACTGTGT
CTACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAGTTGCTGACTCGTATGCACAGAATGCCAAAGTGA
TTGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCCACTGCAAGAGCTGGCTGAATGGGAACCCCAGGAAA
AGTGAAAATGAAGGGGACCCCTTGATTGACAACCAGTTCAAATAACCAGGCTTTTTTTCTGAGCCCTAGACTGGAG
GCAAGCATTTAGATCAGGAGACAAAGTAACTTCTTGATTACATAGACTGGTTCCTATTTATATCCCAGCAGAAGG
CTTTATGTTGTTTCCCATTGATTCTCCTACATGCAGTGAGGTCTTTAACTGAGTCCATTTGACCTGCTTTCT

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FIGURE 2531

GGCGGCGGCAAGGGCGGGAGGGAGCGGTCGCCGCGGGATTGGAGCTGCCTAGCCTCGCGGTCGCTTTGGCAGCA
TGTAAGCAGCTGTTTGGCAAGAACCCAGGTCAGTCTGCTAAGAAAGGGTGCCTTCGGGAGAAGAGTGTCCAGAGGAT
ACCAATGCCAGATGCATCTGGAGTTACACTCAGCACTCGCAGTATGAGACATTGTGTGCCAGCATCTCTTTCCCTT
CTGGCAAAGACTGTAGCTCTCCAGGTAGGAGGATCCTGGAAGCTGTGAGCACCAGGAGCCTTGCCAGAGGAGGAT
GGGGCCAGATATGAACTCTCTACCATGAACATGGTTCTCGGCTTATGAAGGAATTTAAGTAAAACAGTTATTTA
ATTTCCACATATTCAAGTCAAAGCCTTCTGTGTGAAGTGCCAGTGATTACCCCTCCACAGGAGTTATCAGGATT
TTTCTGGCACCAAGTTTAATTCTTCTCGTACTTCTGGTAGTGACAGATCTGCAGGACAGATTTATCTGTTGAAT
GCTCTTGGGCAGGAAAACCATGTAAACCTCTGGAAGCAGCATCAGGACAGCAGAGCAGAGCCCCCGTCCTCACT
GCTCACTTGACAGAACTCCATCTGGACTCGGATGCTTTTACTGAAGACCCATCTAGCTTCAATCATCTTTAGA
GTCCATCCATTCTGGAGAGACCTGGCGTTTGCAGTTGCCTCCTGTGGCCGTGTTTTCTGTCTATTCTGTTCCCAG
GCCTTCTATTACAGGCGGTTGAAGGGTGTGGACTTTGGAATGGGGTTTGCTGTTCTTCGGGAACCTTGCTTCCTTTC
CCTGGCTGGTGCTGTGACGAAGGACCATCTGAAGGCTGCAATTTGTTCTTAGGGAGGCAGGTGCTGGCCTGGCCT
GGATCTTCCACCATGTTCTCGTTTTCATCATAGTGCCAGCCATTTTGGAGTCTCCTTTGGTATCCGCAAACCTCTAC
ATGAAAAGTCTGTTAAAAATCTTTCGCTGGGCTACCTTGAGAATGGAGCGAGGAGCCAAGGAGAAGAACCACCAG
CTTTACAAGCCCTACACCAACGGAATCATTGCAAAGGATCCCACTTCACTAGAAGAAGAGATCAAAGAGATTCTGT
CGAAGTGGTAGTAGTAAGGCTCTGGACAACACTCCAGAGTTCGAGCTCTCTGACATTTTCTACTTTTGCCGAAA
GGAATGGAGACCATTATGGATGATGAGGTGACAAAGAGATTCTCAGCAGAAGAAGTGGAGTCTGGAACCTGCTG
AGCAGAACCAATTATAACTTCCAGTACATCAGCCTTCGGCTCACGGTCTGTGGGGGTTAGGAGTGCTGATTCCG
TACTGCTTTCTGCTGCCGCTCAGGATAGCACTGGCTTTACAGGGATTAGCCTTCTGGTGGTGGGCACAACCTGTG
GTGGGATACTTGCCAAATGGGAGGTTTAAGGAGTTCATGAGTAAACATGTTCACTTAATGTGTTACCGGATCTGC
GTGCGAGCGCTGACAGCCATCATCACCTACCATGACAGGAAAACAGACCAAGAAATGGTGGCATCTGTGTGGCC
AATCATACCTCACCGATCGATGTGATCATCTTGGCCAGCGATGGCTATTATGCCATGGTGGGTCAAGTGCACGGG
GGACTCATGGGTGTGATTACAGAGAGCCATGGTGAAGGCTGCCACACGTCGTGGTTTGAGCGCTCGGAAGTGAAG
GATCGCCACCTGGTGGCTAAGAGACTGACTGAACATGTGCAAGATAAAAGCAAGCTGCCTATCCTCATCTTCCCA
GAAGGAACCTGCATCAATAATACATCGGTGATGATGTTCAAAAAGGGAAAGTTTGAATTGGAGCCACAGTTTAC
CCTGTTGCTATCAAGTATGACCCTCAATTTGGCGATGCCTTCTGGAACAGCAGCAAATACGGGATGGTGACGTAC
CTGCTGCGAATGATGACCAGCTGGGCCATTGTCTGCAGCGTGTGGTACCTGCCTCCCATGACTAGAGAGGCAGAT
GAAGATGCTGTCCAGTTTGCGAATAGGGTGAAATCTGCCATTGCCAGGCAGGGAGGACTTGTGGACCTGCTGTGG
GATGGGGGCCCTGAAGAGGGAGAAGGTGAAGGACACGTTCAAGGAGGAGCAGCAGAAGCTGTACAGCAAGATGATC
GTGGGGAACCAAGGACAGGAGCCGCTCCTGAGCCTGCCTCCAGCTGGCTGGGGCCACCGTGCGGGGTGCCAAC
GGGCTCAGAGCTGGAGTTGCCGCCGCCGCCCACTGCTGTGTCTTTCCAGACTCCAGGGCTCCCCGGGCTGCT
CTGGATCCCAGGACTCCGGCTTTGCCCGAGCCGCAGCGGGATCCCTGTGCACCCGGCGCAGCCTACCCTTGGTGG
TCTAAACGGATGCTGCTGGGTGTTGCGACCCAGGACGAGATGCCTTGTTCTTTTACAATAAGTCGTTGGAGGAA
TGCCATTAAAGTGAACCTCCCCACCTTTGCACGCTGTGCGGGCTGAGTGGTTGGGGAGATGTGGCCATGGTCTTGT
GCTAGAGATGGCGGTACAAGAGTCTGTTATGCAAGCCCGTGTGCCAGGGATGTGCTGGGGGCGGCCACCCGCTCT
CCAGGAAAAGGCACAGCTGAGGCACTGTGGCTGGCTTCGGCCTCAACATCGCCCCCAGCCTTGAGCTCTGCAGAC
ATGATAGGAAGGAACTGTCTATCTGCAGGGGCTTTAGCAAAAATGAAGGGTTAGATTTTTATGCTGCTGCTGATG
GGGTTACTAAAGGGAGGGGAAGAGGGCAGGTGGGCCGCTGACTGGGCCATGGGGAGAACGTGTGTTCTGTAATATGAGT
GGCTAACCCCTGAACCTCCCATGTGATGCGCGCTTTGTTGAATGTGTGTCTCGGTTTCCCATCTGTAATATGAGT
CGGGGGGAATGGTGGTGATTCTTACCTCACAGGGCTGTTGTGGGGATTAAAGTGCTGCGGGTGAGTGAAGGACAC
ATCAGCTTCAGTGTTCAGTACAGGCCACAAAACGGGGCACGGCAGGCCTGAGCTCAGAGCTGCTGCACTGGG
CTTTGGATTGTCTTGTGAGTAAATAAACTGGCTGGTGAATG

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FIGURE 2532

MFLLLPFDSLIVNLLGISLTVLFTLLLVFIIVPAIFGVSF GIRKLYMKSLLKIFAWATLRMERGAKEKNHQLYKP
YTNGIIAKDPTSLEEEIKEIRRS GSSKALDNTPEFELSDIFYFCRKG METIMDDEVTKRFS AEELESWNLLSRTN
YNFQYISLRLTVLWGLGV LIRYCFLPLRIALAF TGISLLVGT TVVGYLPNGRFKEFMSKHVHLMCYRICVRAL
TAIITYHDRENRP RNGGICVANHTSPIDV IILASD GYYAMVGQVHGGLMGVIQ RAMVKACPHVWFERSEVKDRHL
VAKRLTEHVQDKSKLPILIFPEGTCINNTSVMMF KKSFEIGATVYPVAIKYDPQFGDAFWNSSKYGMVTYLLRM
MTSWAIVCSVWYLPPMTREADEDAVQFANRVKSAIARQGGLVDLLWDGGLKREKVKDTFKEEQQLYSKMIVGNH
KDRSRS

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FIGURE 2533

GAACCCTAGGTTGTTGGATGATGTCAGCTTCCATCCTTGTGTTTCGTTTCAAACGCTGGGAATCTGAGCGCATCCT
CTCCTTCATCCCTCCTGATGGAACTTCCGCCTGCTGTCTTACCATGTGTCAGTGCACAGAATCTGGTTGCAATCCC
AGTGTATGTCAAACATAACATCAGTTTCCGGGACAGTAGTTCCCTTGGACGCTTTGAAATAACGGTGGGACCCAA
GCAGACGATGGGGAAGACCATTGAGGGAGTGATTGTCACCAGCCAGATGCCCAAGGGGGTCTGAACATGAGCCT
TACTCCATCACAGGGGACACACACATTGACCCAGTCACAAAGATGCTGTCTTGGGATGTAGGAAAAATAAATCC
ACAAAAGCTACCAAGTTTGAAGGGGACCATTGAGTCTTCAGGCTGGAGCTTCCAAACCAGATGAAAACCCCAAT
TAACCTGCAGTTTAAGATCCAGCAGCTGGCCATTTCTGGACTCAAGGTGAATCGTCTGGATATGTATGGAGAAAA
GTACAAACCCTTTAAGGGCATAAAATACATGACCAAAGCTGGGAAGTTCCAAGTTTGAACCTGAAGGGAGCATT
GCTGAGGGAATAGTCTTGCACATTTTTTTCATTTCTTACTTGTCTAAAAGTAAAAAAAATATCAGCCTGTCTCCT
AGGTGAGTCCCTCCTGGACCCACCCGCTCCCTTTTTTCTTAGCCTTCAGTGCCATGGAACTAATCAAGGGAGG
AAAAGGTCACCAGGGAGAACTGGACAGAACTGAAACACAGCAACACCAGTTCTCAAGGACAAGGTGTGTATGGG
GGTAGGAAGCTTGGTGCTTATGTAACCATTTTAAACGTGGTTTCTATAGGAAAGACCAACATTTGTTTAGCTTGC
TTGGCTTTAATTATCTAAAGCCAATGAAAGACTTCTTTGTTGATTTTTTAAGATAGAAAGATTAAAAAGAAAGAA
AGATGGGAAGAAAATGAATGTTAGTCAAGGAAAGGCCACTTAAGGATCTGCTCTATGAAGGAGAAGAAAGAGGAA
AAAGAAGTAAAGGAGTTAGGAGGAGACACTTAAATGAAAGATTGGCAAGAAAAGCAGTCGGACTCTACCTTAAGG
AGGGATGGGAAGGAAAGAGTTGAGTTGGTTTCTTTCTGATTCTCTACTCATGTAGAAAACACTTGTACTTCTGG
AAATGGACTGGAGACTTTTTAAATTTGAGTCCACTATTGACATGGAAACCCAGTGGAATCAGATTTTCCCTCAA
AGACCATGATGGTATCGGACTAGTTTTTCAGACACTGCCTGTTGCTGTCCATCAGCACTTGGTCTCTTATCTTCAG
TGAGAAGGTGACCCGCTTCTTCCCATGGTGGCTGCCTAAAGTGCTTCTTTTCTAACCCTAAACAGTTCTACTCA
CTTCTTTTACAGAATTCACCGGCCATTTTCTGTTACCTGATCCTTCTACAGGATTTTTTAAAAAGTAAGAGAGT
TTCAGAGAAGCCGATCCCATAAATCCCCAGTGCAGCCAGGGTTTGTGTGTCATCGTACTGGAGTAGAGGGCCGACT
CTTCCCATGAAGGTGAGCACAGCTGTGAGTGAGTGAGCTCATATCTCCATTTGTCAGTGCTGGACTGGTACCAGA
TCGTAACCTTCCCGTTGGTCGGAAACTTTTCCATCTGTGCGCCCTAGAAAAAGAGAAAGCTTACCATCGAGGGTGT
GGTTGATCCTTGAAGCTGCTTGGTAAAGTTATCATTTCCTCAGTCTTTTCTTTTGTACTCCTATCATGTATTCA
TAATATCTACCAGTCCCTTTTTCATTCTAAGACAAAACATTTCTCCTAAATCTCTGAATAAAATCAGTGCTGTAGG
AAGATGGACTGTGTTGATCATGGGTGTAAGCAACCCAGTTTAAAGAACATGGCAACTAAAGGGATACCTCAGGCT
TTCTTTCCCAGTGGGTCATTTTTGTCTAGTTTCAAGTGTGTCTGTACTATTTAAATATTTATACAAAAGGGTTTT
TGTTTATAGCTTAAAGGAATGATACTGTGCTCTGCTTGGTGCATGGAGAAAAAGGAAGACCCATACTCTCCACACC
CTAGAGCTTTTCTCTAAATATTGTGCAAGTTTTTGTAGTTTTATCTTCTGACTTTGGGACTAGTTTTTGTCTGC
AGAGTTGTGTTGCTTTGTGATTTTCTCTGGGATAGTGTACTGTACACAACCAGATGTGTTCCACACTCCGTGAC
TCCGCAGTTTGTCTGGAGTGACATACACATCCACCATGGAAAGGGAAGCATCTCTGCCTGTGGATTCTCAAGTA
CTTGGAAGCACCTCTCCTGAGGAACCTACAGGATTCTAAGGTTTCTAGGTCACTGAACAATAATCTTGGTCCC
TGAATATTTCTAGGTTTGTAAAGTGACAGAGTTTTTATTTCTCTAGAACTCATCCTGTTTCAAGGGAAGTACCTAA
GAAGATATAGAGTGTCTTAGGGTAAGGGACCTGCAGGTGTAAGCATAGATGAAATAACTGTCCTGTACACAGTG
CAGCAGGCCATGGAGTGATAGCGGGCATCGCTGCCGCCATTCTGTCAGCATCACCATAAGCAGTGCAGGGTGTCTC
CATCGAGCTGTTTGGTTCCATGTGTGTTTAAACATGTGCAGAAGTAGCTTCTCTGTTTAAAGTTAATAAAGTTGAG
TTTACCAGTC

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FIGURE 2534

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCACCCCTGCC
TGGAACTTAAGGAGGCCGGAGCTGTGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTTCGCCAGCCAGGAAATCCATGCCCGATTGAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGCACAGTGCCACTCAGT
GCCTGTCAAAAGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGACCAACTGGAACAGCAGCGCGTT
GGCCCAAGGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAACACTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGACCC
TGCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCACGCACAGCCTCACC
GTGGGGTGCCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCAGTGC
CCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTGGTGCCACGTGCT
GAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAGACAGTACAGCCA
GCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGTGCCATCTTTGCCAA
GCACAGGAGGTGCGCCGGAGAGCGGTTCCGTGTGCGGGGGCATACTCATCAGCTCCTGCTGGATTCTCTGCGCGC
CCACTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATACCGGTGGTCCCTGG
CGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACACTTACGACAATGA
CATTGCGCTGCTGCAGCTGAAATCGGATTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCGCACCTGTGTGCCT
TCCCCCGGCGGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCATGAGGCCTTGTC
TCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTGCTGCTGAGACTGTACCCATCCAGCCGCTGCACATCACAACATTT
ACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGGCGGGCCCCAGGCAAACCTTGCA
CGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGCTGTGCTGAACGATGGCCGCATGACTTTGGTGCGCATCAT
CAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTACCTAGACTGGAT
TCGTGACAACATGCGACCGTGAACAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCTCTTCTTCTTCA
GAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGCGGGACGAGACC
CTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGGAAGTTTTAGGACTTGGTCTGATTTAG
GATACTCTGTGATGAGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGGGCAGAAAGTGG
CCATGCCACCCTGTTTTTTCAGCTAAAGCCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAAACAGGACCACA
AAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTTTCAGGAAAGACGGATTGCATTAGAAATAGACAG
TATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCATGTTTCTCAAAA
GCACCCTTGACGTCAAGTCTCCTTCCCCTTTCCCCTCCCTGGCTCTCAGAAGGTATTCCTTTTGTGTACAGTG
TGTAAGTGTAAATCCTTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTGTAACAACCTAGGCT
TCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTATACTGTACTTAATAA
ATTCAGATATATTTTTTACAGTTTTTCC

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FIGURE 2535

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLRSNRVEYCWCNSGR
AQCHSVPVKSCSEPRCFNNGGTCQQALYFSDFVCQCPEGFAGKCCEIDTRATCYEDQGISYRGTWSTAESGAECTN
WNSSALAQKPYSGRRPDAILRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSAQAALGLGKHNYCRNPDGDAKPWCHVLKNRRLTWEYCDVPSCSTCG
LRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGILISSCWILSAAHCFQERFPPHHLTIVILGRT
YRVVPGEEEQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCAQESSVVRTVCLPPADLQLPDWTECELSGYG
KHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDTRSGGPQANLHDACQGDSSGGLVCLNDGRM
TLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

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FIGURE 2536

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCCACCCCTGCC
TGGAACCTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGCTGTGTGTGGAGCAGTCTTCGTTTTCGCCAGCCAGGAAATCCATGCCCGATTGAG
AAGAGGAGCCAGATCTTACCAAGTGATCTGCAGAGATGAAAAACGCAGATGATATACCAGCAACATCAGTCATG
GCTGCGCCCTGTGCTCAGAAGCAACCGGGTGGAATATTGCTGGTGCAACAGTGGCAGGGGCACAGTGCCACTCAGT
GCCTGTCAAAAGTTGCGAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTACTTCTCAGATTT
CGTGTGCCAGTGCCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATACCAGGGCCACGTGCTACGAGGACCA
GGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAACAGCAGCGCGTT
GGCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACTACTGCAGAAA
CCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTTCTGCAGACCCCC
TGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTGAGCCTACCGTGGCAGGCACAGCCTCACCGA
GTCGGGTGCCTCCTGCCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACAGAACCCCAAGTGC
CCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCAT
GAGGCCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTGAGACTGTACCCATCCAGCCGCTGCACA
TCACAACATTTACTTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCAG
GCAAACCTTGACGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTTG
GTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGTGTGTACACCAAGGTTACCAACTAC
CTAGACTGGATTTCGTGACAACATGCGACCGTGACCAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCCT
CTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAGC
GGGACGAGACCCTACAGGAGAGGGAAGAGTGCATTTTCCCAGATACTTCCCATTTTGGAAAGTTTTTCAGGACTTGG
TCTGATTTTCAGGATACTCTGTGAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTGG
GCAGAAAGTGGCCATGCCACCCTGTTTTTCAGCTAAAGGCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGAA
ACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTTCAGGAAAGACGGATTGCATTA
GAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCCGTCAT
GTTCTTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCCCTTTCCCCACTCCCTGGCTCTCAGAAGGTATTCCTTT
TGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTTGA
ACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTTTACT
GTACTTAATAAATTCAGATATATTTTTTCACAGTTTTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2537

MDAMKRGLCCVLLLCGAVFVSPSQEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLR SNRVEYCWNSGR
AQCHSVPVKSCSEPRCFNGGTCQQALYFSDFVCQCEGFAGKCCEIDTRATCYEDQGISYRGTWSTAESGAECTN
WNSSALAQKPYSGRRPD A IRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRG
THSLTESGASCLPWNSMILIGKVYTAQNPSAALGLGKHN YC RTGRSVSSPATASMRPCLLSIRSG

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FIGURE 2538

ATGGCCCTGTCCACTGAGCATCCTCCCGCCACACAGAAACCCGCCAGCCGGGGCCACCGACCCCACCCCCTGCC
TGGAACCTTAAGGAGGCCGGAGCTGTGGGGAGCTCAGAGCTGAGATCCTACAGGAGTCCAGGGCTGGAGAGAAAA
CCTCTGCGAGGAAAGGGAAGGAGCAAGCCGTGAATTTAAGGGACGCTGTGAAGCAATCATGGGATGCAATGAAGAG
AGGGCTCTGCTGTGTGCTGTGTGTGGAGCAGTCTTCGTTTCGCCCAGCCAGGAAATCCATGCCCGATTACAG
AAGAGGAGCCAGATCTTACCAAGGTTGCAGCGAGCCAAGGTGTTTCAACGGGGGCACCTGCCAGCAGGCCCTGTA
CTTCTCAGATTTTCGTGTGCCAGTGTCCCGAAGGATTTGCTGGGAAGTGCTGTGAAATAGATAACCAGGGCCACGTG
CTACGAGGACCAGGGCATCAGCTACAGGGGCACGTGGAGCACAGCGGAGAGTGGCGCCGAGTGCACCAACTGGAA
CAGCAGCGCGTTGGCCCCAGAAGCCCTACAGCGGGCGGAGGCCAGACGCCATCAGGCTGGGCCTGGGGAACCACAA
CTACTGCAGAAACCCAGATCGAGACTCAAAGCCCTGGTGCTACGTCTTTAAGGCGGGGAAGTACAGCTCAGAGTT
CTGCAGCACCCCTGCCTGCTCTGAGGGAAACAGTGACTGCTACTTTGGGAATGGGTACGCCTACCGTGGCACGCA
CAGCCTCACCGAGTGGGGTGCTTCTGCTCCCGTGGAATTCATGATCCTGATAGGCAAGGTTTACACAGCACA
GAACCCCAAGTGCCAGGCACTGGGCCTGGGCAAACATAATTACTGCCGGAATCCTGATGGGGATGCCAAGCCCTG
GTGCCACGTGCTGAAGAACCGCAGGCTGACGTGGGAGTACTGTGATGTGCCCTCCTGCTCCACCTGCGGCCTGAG
ACAGTACAGCCAGCCTCAGTTTCGCATCAAAGGAGGGCTCTTCGCCGACATCGCCTCCACCCCTGGCAGGCTGC
CATCTTTGCCAAGCACAGGAGGTCGCCCGGAGAGCGGTTTCTGTGCGGGGCATACTCATCAGCTCCTGCTGGAT
TCTCTCTGCCGCCCCTGCTTCCAGGAGAGGTTTCCGCCCCACCACCTGACGGTGATCTTGGGCAGAACATAACCG
GGTGGTCCCTGGCGAGGAGGAGCAGAAATTTGAAGTCGAAAAATACATTGTCCATAAGGAATTCGATGATGACAC
TTACGACAATGACATTGCGCTGCTGCAGCTGAAATCGGATTTCGTCCCGCTGTGCCAGGAGAGCAGCGTGGTCCG
CACTGTGTGCCTTCCCCCGGCGACCTGCAGCTGCCGGACTGGACGGAGTGTGAGCTCTCCGGCTACGGCAAGCA
TGAGGCCTTGTCTCCTTTCTATTTCGGAGCGGCTGAAGGAGGCTCATGTGAGACTGTACCCATCCAGCCGCTGCAC
ATCACAACATTTTACTTAACAGAACAGTCACCGACAACATGCTGTGTGCTGGAGACACTCGGAGCGGCGGGCCCCA
GGCAAACCTTGACGACGCCTGCCAGGGCGATTTCGGGAGGCCCCCTGGTGTGTCTGAACGATGGCCGCATGACTTT
GGTGGGCATCATCAGCTGGGGCCTGGGCTGTGGACAGAAGGATGTCCCGGGTGTGTACACCAAGGTTACCAACTA
CCTAGACTGGATTTCGTGACAACATGCGACCGTGAACAGGAACACCCGACTCCTCAAAAGCAAATGAGATCCCGCC
TCTTCTTCTTCAGAAGACACTGCAAAGGCGCAGTGCTTCTCTACAGACTTCTCCAGACCCACCACACCGCAGAAG
CGGGACGAGACCCTACAGGAGAGGGAAGAGTGCAATTTCCAGATACTTCCATTTTGGAAAGTTTTCAGGACTTG
GTCTGATTTTCAGGATACTCTGTGAGATGGGAAGACATGAATGCACACTAGCCTCTCCAGGAATGCCTCCTCCCTG
GGCAGAAAGTGGCCATGCCACCCTGTTTTAGCTAAAGCCCAACCTCCTGACCTGTACCGTGAGCAGCTTTGGA
AACAGGACCACAAAAATGAAAGCATGTCTCAATAGTAAAAGATAACAAGATCTTTCAGGAAAGACGGATTGCATT
AGAAATAGACAGTATATTTATAGTCACAAGAGCCCAGCAGGGCCTCAAAGTTGGGGCAGGCTGGCTGGCCCGTCA
TGTTCTCCTCAAAGCACCCCTTGACGTCAAGTCTCCTTCCCTTTCCCACTCCCTGGCTCTCAGAAGGTATTCCTT
TTGTGTACAGTGTGTAAAGTGTAATCCTTTTTCTTTATAAACTTTAGAGTAGCATGAGAGAATTGTATCATTG
AACAACTAGGCTTCAGCATATTTATAGCAATCCATGTTAGTTTTTACTTTCTGTTGCCACAACCCTGTTTATAC
TGTAATTAAATAATTCAGATATATTTTTTACAGTTTTTCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 2539

MDAMKRG LCCV LLLCGAVFVSPSQEI HARFRRGARSYQGCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEI
DTRATCYEDQGISYRG TWSTAESGAECTNWNSSALA QKPYSGRRPDAIRLG LGNHNYCRNPDRDSKPWCYVFKAG
KYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSA QALGLGKHNYCRNP
GDAKPWCHVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFADIASHPWQA AIFAKHRRSPGERFLCGGIL
ISSCWILSAAHCFQERFPPHHLTVILGR TYRVVPGE EEQKFEVEKYIVHKEFDDDTYDNDIAL LQLKSDSSRCAQ
ESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCAGDT
RSGGPQANLHDACQGDSSGGPLVCLNDGRMTLVGI ISWGLGCGQKDVPGVYTKVTNYLDWIRDNM RP

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FIGURE 2540

GGAGGGGCGGGGCCTCCGCCACCACTCAGCTGCGGACCGAGGCGAGATGGCGGCCACCGAGGGGGTCTGGGGAGG
CTGCGCAAGGGGCGAGCCCGGGCAGCCGGCGCAACCCCGCCCCAGCCGCACCCACCGCCGCCCCAGCAGCAGC
ACAAGGAAGAGATGGCGGCCGAGGCTGGGGAAGCCGTGGCGTCCCCCATGGACGACGGGTTTGTGAGCCTGGACT
CGCCCTCCTATGTCCTGTACAGGGACAGAGCAGAATGGGCTGATATAGATCCGGTGCCGCAGAATGATGGCCCCA
ATCCCGTGGTCCAGATCATTATAGTGACAAATGTAAGTTTTTTATGATTACTTCCGAGCTGTCCTGCAGCGTGA
TGAAAGAAGTGAACGAGCTTTTAAGCTAACCCGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCA
TTTCCGGAGAGTTCTTTTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGA
GGAGCAGCCCAAAAATATCAAGTTTGGCATCATAGGCGAGTATTAGTGGAATGGCTAAGAGATCCATCTCAGGA
GCTTGAATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGGTTAT
TCAGGTATT

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FIGURE 2541

AACTTTTAAAACTCTCATTGGAGTAAGTCTTTTCAAGATGATCCTCCACAATGGAGGCAGCGTTCCTACTTGTC
ATCACACAGCTGAAGACATTGTTTCTTAGGTGTGAAATCGGGGACAAAGGACAAACAGAGACACACGGCATTGTT
CATGGGAGGCATCGTCACCCCTCCTGGGTGTTCTGTGGGAATTTCTGTGTGAGGAAAACGTGGCCACAGGGTTGT
GCTGTACCCACCCCTTCCCCGGCGAGATGGCCCTCGGCCTGTGCCGCTGCTTCCACCCCTCGCCACTCCATGGCAGC
TTTTGGTCTGTTTCCGGCTCTGCCCTCTGCCCTGAACTCTCATCCGGCTTGTACCTGCCTGCTGGACCCCTCCAC
CTGGAGGCCAGCCCATGTCTCAGGCCCAGCCCTAGCCTCTTCTCCTCAAATTCCTAAGTGTTTTCTCTTTAGGTTT
CCCTGGCTTTGTGAATGGATCATGTGTCTCTAGGTATAAACCTGACATCATCTTCCACCCGGCTTACCTCCACC
AGATCTCCCCAGTTCTGTCTCCATCTTCTGCCTGCAGCTGCTCTGTTCTCATGGTCACTGCTGCATCACTGAGTC
TGGACCCTTGTTATCATTTTTCAAACCTGGCCTCCTTCCCTCGTTCCCCACTTCTTAAAGTCACCTGTCCATTGCCA
CCAGATTAAAGCTTTTCTCCAGCCAGATCACCTCTCTCTGAGAAACCTCCATTGACATGGAAACACCATTGTCTGGC
ACACATACTCACATACCCACCTTCCCGTCTTGATCCCCACACATCTTCCAGCCTCCCCTCCCACTCCACTCCCT
GCTCTCTCCTCCACCTCCCCATCCTCTTGTCTCCCTCCCCTCTGAATCCAGCCCAGCGGGGCTTCTCCTGCCTC
CATCACATCACAGAAGTACCTCCTGCTTCTGGTTTTAATTAGAGCCTTCCCCGATTACATTTTCTCTGAATTTT
TTCCTATCTACATTTGATCTGTCAATTTAAACCCCTACTTCTAAGGGAACCTTCTCTAATCTCTTATCCTCATC
CCCAAATAGTGTTTTCTTCTCTGGGTCTTATAATGTTGGTATCAATCTCACAGCATTTAGTGCTTCTGCCTG
GTGTGACAGTTACCTGTGTGCATGTGCAATTTCTAATTTCCACGCTAGACTGTGAGCTTCTTAAGGCAAGAATC
ATGCCTCGTTGGTTTCTGTATTCTCATGGTGCCAAACACAGTGCCTTCTACATTGCAGGCGCTGAATAAACATT
TTTAAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 2542

MALGLCRCFHPRHSMAAFGLFPALPSALNSHPACTCLLDPSTWRPAHVSGPALASSPQILSVFSLGFPGFVNGSC
VSRYKPDIIFFPGLPPPDLPSVSIFCLQLLCSHGHCITESGPLLSFSNWPPSLVPFLKSPVHCHQIKLSPAR
SPLSEKPPLTWKHHCLAHILTYPPSRDPHTSFQPPLPLHSLSPPPPHPLVSPPL

FIGURE 2543A

[illegible]

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FIGURE 2543B

ACCCTGGATGAGCGACTTCAAAGTGGAGTTCCTGAGAAATGAGCTGGAGATTCCCGGTCAGTATGACGGTAGGGG
AAAGCCATTGCCAGAGTACCACGTGCGAATCGCCGGGTTTGATGAGCGGGTGACAGTCATGGCGTCTCTGCGAAG
GCCCAAGCGCATCATCATCCGTGGCCATGACGAGAGGGAACACCCTTTCTGGTGAAGGGTGGCGAGGACCTGCG
GCAGGACCAGCGCGTGGAGCAGCTCTTCCAGGTCATGAATGGGATCCTGGCCCAAGACTCCGCCTGCAGCCAGAG
GGCCCTGCAGCTGAGGACCTATAGCGTTGTGCCCATGACCTCCAGGTTAGGATTAATTGAGTGGCTTGAAAATAC
TGTTACCTTGAAGGACCTTCTTTTGAACACCATGTCCCAAGAGGAGAAGGCGGCTTACCTGAGTGATCCCAGGGC
ACCGCCGTGTGAATATAAAGATTGGCTGACAAAAATGTCAGGAAAACATGATGTTGGAGCTTACATGCTAATGTA
TAAGGGCGCTAATCGTACTGAAACAGTCACGTCTTTTAGAAAACGAGAAAGTAAAGTGCCTGCTGATCTCTTAAA
GCGGGCCTTCGTGAGGATGAGTACAAGCCCTGAGGCTTTCCTGGCGCTCCGCTCCCACTTCGCCAGCTCTCACGC
TCTGATATGCATCAGCCACTGGATCCTCGGGATTGGAGACAGACATCTGAACAACTTTATGGTGGCCATGGAGAC
TGGCGGCGTGATCGGGATCGACTTTGGGCATGCGTTTGGATCCGCTACACAGTTTCTGCCAGTCCCTGAGTTGAT
GCCTTTTCGGCTAACTCGCCAGTTTATCAATCTGATGTTACCAATGAAAGAAACGGGCCTTATGTACAGCATCAT
GGTACACGCACTCCGGGCCTTCCGCTCAGACCCTGGCCTGCTCACCAACACCATGGATGTGTTTGTCAAGGAGCC
CTCCTTTGATTGGAAAAATTTTGAACAGAAAATGCTGAAAAAAGGAGGGTCATGGATTCAAGAAATAAATGTTGC
TGAAAAAAATTGGTACCCCCGACAGAAAATATGTTACGCTAAGAGAAAGTTAGCAGGTGCCAATCCAGCAGTCAT
TACTTGTGATGAGCTACTCCTGGGTCATGAGAAGGCCCTGCCTTCAAAGACTATGTGGCTGTGGCACGAGGAAG
CAAAGATCACAACATTCGTGCCCAAGAACCAGAGAGTGGGCTTTCAGAAGAGACTCAAGTGAAGTGCCTGATGGA
CCAGGCAACAGACCCCAACATCCTTGGCAGAACCTGGGAAGGATGGGAGCCCTGGATGTGA

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FIGURE 2544

GGAGTCCGCGAGCGTCTGTCGGCAAGCGGCCGCTTTCCACGGTAACCGCGCGCCGGCGGGGAGGGCGTGGCGCGG
AGCCGACGGGAACGTCCGCGCTGCGGAGCAGGGCAGGGAAGCCGGGAGGCGGGCCCCGGCCGAGCTTGTCCTTGT
CGCGCAGGTACTCCGAGCACTATGTCGTCCCCGGCGTCGACCCCCGAGCCCGCGCGGCAGCCGGCGTGGAAGGGCC
ACCCCCGCCCAGACGCTCGGAGTGAGGATGCCAGGTCATCTCCCTCTCAGAGACGTAGAGGCGAGGATTCCACC
TCCACGGGGGAGTTGCAGCCGATGCCAACCTCGCCTGGAGTGGACCTGCAGAGCCCTGCTGCGCAGGACGTGCTG
TTTTCCAGCCCTCCCCAAATGCATTCTTCAGCTATCCCTCTTGACTTTGATGTTAGTTCACCACTGACATACGGC
ACTCCAGCTCTCGGGTAGAGGGAACCCCAAGAAGTGGTGTTAGGGGCACACCTGTGAGACAGAGGCCTGACCTG
GGCTCTGCACAGAAGGGCCTGCAAGTGGATCTGCAGTCTGACGGGCGAGCAGCAGAAGATATAGTGGCAAGTGAG
CAGTCTCTAGGCCAAAACTTGTGATCTGGGGAACAGATGTAAATGTGGCAGCATGCAAAGAAAACTTTTCAGAGA
TTTCTTCAGCGTTTTATTGACCCCTCTGGCTAAAGAAGAAGAAAATGTTGGCATAGATATTACTGAACCTCTATAC
ATGCAACGACTTGGGGAGATTAATGTTATTGGTGAGCCATTTTTAAATGTGAAGTGTGAACACATCAAATCATTT
GACAAAAATTTGTACAGACAACCTCATCTCTTACCCACAGGAAGTTATTCCAATTTTGACATGGCTGTCAATGAA
ATCTTCTTTGACCGTTACCCCTGACTCAATCTTAGAACATCAGATTCAAGTAAGACCATTCAACGCATTGAAGACT
AAGAATATGAGAAACCTGAATCCAGAAGACATTGACCAGCTCATCACCATCAGCGGCATGGTGATCAGGACATCC
CAGCTGATTCCCGAGATGCAGGAGGCCTTCTTCCAGTGCCAAGTGTGTGCCACACGACCCGGGTGGAGATGGAC
CGCGGCCGCATTGCAGAGCCCAGTGTGTGCGGGCGCTGCCACACCACCCACAGCATGGCACTCATCCACAACCGC
TCCCTCTTCTCTGACAAGCAGATGATCAAGCTTCAGGAGTCTCCGGAAGACATGCCTGCAGGGCAGACACCACAC
ACAGTTATCCTGTTTTGCTCACAATGATCTCGTTGACAAGGTCCAGCCTGGGGACAGAGTGAATGTTACAGGCATC
TATCGAGCTGTGCCTATTTCGAGTCAATCCAAGAGTGAGTAATGTGAAGTCTGTCTACAAAACCCACATTGATGTC
ATTCATTATCGGAAAACGGATGCAAAACGTCTGCATGGCCTTGATGAAGAAGCAGAACAGAACTTTTTTTCAGAG
AAACGTGTGGAATTGCTTAAGGAACCTTCCAGGAAACCAGACATTTATGAGAGGCTTGCTTCAGCCTTGCTCCA
AGCATTATGAACATGAAGATATAAAGAAGGGAATTTTGCTTCAGCTCTTTGGCGGGACAAGGAAGGATTTTAGT
CACACTGGAAGGGGCAAATTTTCGGGCTGAGATCAACATCTTGCTGTGTGGCGACCCTGGTACCAGCAAGTCCCAG
CTGCTGCAGTACGTGTACAACCTCGTCCCCAGGGGCCAGTACACGTCTGGGAAGGGCTCCAGTGCAGTTGGCCTC
ACTGCGTACGTAATGAAAGACCCTGAGACAAGGCAGCTGGTCTGCAGACAGGTGCTCTTGCTCTGAGTGACAAC
GGCATCTGCTGTATCGATGAGTTCGACAAGATGAATGAAAGTACAAGATCGGTATTGCATGAAGTCATGGAACAG
CAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTGCTCAGCTCAATGCGCGCACCTCTGTCTGGCAGCAGCAAT
CCCATTGAGTCTCAGTGGAAATCTAAAAAAACAACCATTTGAAAACATCCAGCTGCCTCATACTTTATTATCAAGG
TTTGATTTGATCTTCTCTTGCTGGACCCTCAGGACGAAGCCTATGACAGGCGTCTGGCTCACCACCTGGTCGCA
CTGTACTACCAGAGCGAGGAGCAGGCAGAGGAGGAGCTCCTGGACATGGCGGTGCTAAAGGACTACATTGCCTAC
GCGCACAGCACCATCATGCCGCGGCTAAGTGAGGAAGCCAGCCAGGCTCTCATCGAGGCTTATGTAGACATGAGG
AAGATTGGCAGTAGCCGGGGAATGGTTTCTGCATACCCTCGACAGCTAGAGTCATTAATCCGCTTAGCAGAAGCC
CATGCTAAAGTAAGATTGTCTAACAAAGTTGAAGCCATTGATGTGGAAGAGGCCAAACGCCTCCATCGGGAAGCT
CTGAAGCAGTCTGCAACTGATCCCCGACTGGCATCGTGGACATATCTATTCTTACTACGGGGATGAGTGCCACC
TCTCGTAAACGGAAAGAAGATTAGCTGAAGCATTGAAAAAGCTTATTTTATCTAAGGGCAAACACCAGCTCTA
AAATACCAGCAACTTTTTGAAGATATTTCGGGGACAATCTGACATAGCAATTACTAAAGATATGTTTGAAGAAGCA
CTGCGTGCCCTGGCAGATGATGATTTCTGACAGTGACTGGGAAGACCGTGCGCTTGCTCTGAAGCCTTGAGAGC
AAGGAAGGCTCCCTGCATGTCTGCTTGCTGCACGCCACATGGGTGTGGTCTGCATCTCAGTTGGCCGCCATCAG
TGTAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAAATTTCTAACTTGGGTTCATATTTGTAGTGAAGTA
TCTGTTTTTCATTTTTTCACGTTATAAATAAAAAATACTATGCTGGCCGGGCGCGGTGGCTCACACCTGTAATCCC
CCGCTCTCTAGTAAAGATAACAAAAAATTAGCTGGGCTTGATGGCATGCGCCTGTAATCCCAGCTACTCGGGAGGT
TGAGGCAGGAGAATCGCTTAAACCCAGGCGGCAGAGGTTGCAGTGAGCCAAGATCGCGCCACTGCACTCCAGCCT
CAGCAATAGAGTGAGACTGTCTC

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FIGURE 2545

MSSPASTPSRRGSRRGRATPAQTPTSSEDARSSPSQRRRGEDSTSTGELQPMPTSPGVDLQSPAAQDVLFSSPPQM
HSSAIFLDFDVSSPLTYGTPSSRVEGTTPRSGVRGTPVRQRPDLGSAQKGLQVDLQSDGAAAEDIVASEQSLGQKL
VIWGTDVNVAACKENFQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ
LISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDIDQLITISGMVIRTSQLIPEMQ
EAFFQCQVCAHTTRVEMDRGRIAEPSVCGRCHTTHSMALIHNRSLFSDKQMIKLQESPEDMPAGQTPHTVILFAH
NDLVDKVQPGDRVNVGTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIHYRKTDARLHGLDEEAEQKLFSEKRVELLK
ELSRKPDIERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHGTGRGKFRAEINILLCGDPGTSKSQLLYVYN
LVPRGQYTSKGSSAVGLTAYVMKDPETRLVLQTGALVLSDNIGICIDEFDKMNESTRSVLHEVMEQQTLIAK
AGIICQLNARTSVLAAANPIESQWNPKKTTIENIQLPHTLLSRFDLIFLLDPQDEAYDRRLAHLVALYYQSEE
QAEELLDMAVLKDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESIRLAEAHAKVRLS
NKVEAIDVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATSRKRKEELAEALKKLILSKGKTPALKYQQLE
DIRGQSDIAITKDMFEEALRALADDDFLTVTGKTVRL

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FIGURE 2546

CGCGTCGGGCTGCAGGAGAAGATGCGGGTCTCCACAGGAGTTAAAGTTCCTCGTAATTTTCGCTTGTTGGAAGAA
CTTGAAGAAGGACAAAAAGGAGTAGGCGACGGTACAGTTAGCTGGGGCCTTGAAGATGATGAAGATATGACACTT
ACAAGGTGGACAGGCATGATTATTGGGCCACCAAGGACAAATTATGAAAACAGAATATATAGCCTGAAAGTAGAA
TGTGGACCTAAATACCCAGAAGCTCCTCCGTCAGTTAGATTGTAAACAAAAATTAATATGAACGGAATAAATAAT
TCCAGTGGGATGGTGGATGCCCCGGAGCATACCAGTGTTAGCAAAATGGCAAAATTCATATAGCATTAAGTTGTA
CTTCAAGAGCTAAGACGTCTAATGATGTCCAAAGAAAATATGAAGCTTCCACAGCCACCAGAAGGACAAACATAC
AACAATTAAATTTTAGTGATCTCAAACCTTGCTTAAATCAACAACCTTCTACTCATGTTAATGTCTTGATTAAAT
ATCACAATGCAAAATACACATTAAGTAAAAGAATTCCAGCTGGTAAACATGACCTGGACATTTGTAAGAATATAT
TTAATATATGTACACCCATTATGTTTTTCAGGTAACAGGAGGAAAAATGCAGCACAAATTTTTTTCTCTTGAAAGG
CACTGTCATTTAAACATAAACCTGGAGTACTCGAAATAGAATTCAGGTTTACAAGATGAAAGCGTGTGGAGAAGT
GTCAGATGGCAGTGAAGCATGTGTGTTTCTAAAAAGTAAAAATCTCAAGAAAACAGAAATGGCATGCTTTACCC
ATCTTACTTAGTGAAAGAGAGCTGCAGTTGAAATTGTTTAAAAAGTAGCAGGTACAATGAATATTGTCACAGATG
TGTTAATTTTTGAAGCAATGTGGGTGCTGACTACTAGTAGTATCAAAAATATGTTTCAGGATTGTTTGATACCTG
TATTTATAATAAAAAATGTTGGGGGGAGTTGATGAATTCCTGTAAAGCTGTTCTTGTTGTGTACATGTAACAG
ACATGGTAAATATTTGTTTACAGTCTTTGTTTAAACAAACCATGCATTTAAGTTTAAAGTGAAGTCAACAAAAAGGA
AATAGGTGTATGGATATGTGATTTTGAGATTAAAGTTAGTCTTAAATGTAAATAAAATGTGAAACGTGTCCTCA
GAGACTGTGCCATTTCTATTATGTTGATGTATATGTACAGTACCTTGCCAGGGAAGCAAAAATTGGAATTATTGT
AGCTTTTCATGTATACACACTTTTATTTACCCTATTTTGTGTACTTCTTGTAATTATAATTTGCAGACTATTTT
AGAAAAGAAATTATCTAGTTTAAATTTCTTTGGACAAGGAGTCCTAGGTATTATATTTGAGTTTGATTTTAC
CAGAAATAATAATATTAATAAGATCTTTGCATTCTGGCAGTTCTTTTAGGATTATAGGTTGCAAATTATCCAAAT
ATATATCCCATTTTTTAAAGCATAAAAA

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FIGURE 2547

MAVSTGVKVPNFRLLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYENRIYSLKVECGPKYPE
APPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQTYNN

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FIGURE 2548

AGATGGGCCATCAACTGAGAAAGACCTTGACGAAAAGAAGAAAGAACCTGCAATTACATCGCAGAACAGCCCTGA
GGCAAGAGAAGAAAGTACTTCCAGCGGCAATGTAAGCAACAGAAAGGATGAGACAAATGCTCGAGATACTTATGT
TTCATCCTTTTCCTCGGGCACCAGCACTTCTGATTCTGTGCGGTTGAAGTGTAGGGAGATGCTTGTGCTGCAGCTCT
TCGAACAGGGGATGACTACATTGCAATTGGAGCTGATGAGGAAGAATTAGGATCTCAAATTGAAGAAGATATATA
TCAAGAAATAAGGAATACAGACATGAAATACAAAATAGAGTACGAAGTAGGATATCAAATCTTAAAGATGCAAA
AAATCCAAATTTAAGGAAAAATGTCCTCTGTGGGAATATTCCTCCTGACTTATTTGCTAGAATGACAGCAGAGGA
AATGGCTAGTGATGAGCTGAAAGAGATGCGGAAAAAAGCTTGACCAAGAAGCCATCAGAGAGCATCAGATGGCCAA
GACTGGTGGGACCCAGACTGACTTGTTCACATGTGGCAAATGTAAAAGAAGAATTGCACCTACACACAGGTACA
AACCCGTAGTGCTGATGAACCAATGACAACATTTGTGTCTGTAATGAATGTGGAAATCGATGGAAGTTCTGTTG
AGTTGGAAGAATTGGCAAAATATCTGGACCATTAAAGAAAACGGATTTTGTAACTAGCTTTAAACTAGGCCAAGCA
ACTAGTTTTCTGCAAAATCAAATTTTAAAGCAACTTGGGTTAGACTTTGTTTTTGACCTAACATCCCTTCCTTA
AATGCCTTCTGTAGTTTCAGATCAGTAGGGAGACCATATAATAATTTTATGGTACCTGTTTCAAAACATATTTTT
TCTGTTTTTATAAGTAAGTTGATATTAATTAAGTCTTGGCAATATTTCTTCTTTCTTAAAGGAAAAATATACCTT
AACTTTTTTTCTTTTACACTGTGAAACATACACAGTAGAAATCTGTTACTCTCTGTTATTAATACATAAATGAA
AATACATTTTTTTCCATATTGGCATGTAGCTACAAATATTAAAGGAGGAGAAAAGGTAATATAATTTTAGGTTTA
CCAAATATGGTGTGTATTCAAATAATACTTGACCAGCTTATCTAAAATGTACATAATTTTGAGGTAGCTTATGAA
TTTGATTTTAAATTATTATGTTTACAAGCTTGAATATTAGATATTATTTTGCATCTGTAACTAACCGTGATCATC
ATTTCTTGTAATTTCTTGATCATGTATATTACTTGTCTTAATAGATTTTTTGAAACAAGACTTTATTGAGATCA
GTTTGGTTTTCTGTTAATTTACCTGTTTGACTTTATAATGTGTTTTAGTTTTGCAGAAGAAGACTGTTGTAGTT
TAGAAGGCTTTTCATAAATCCCTCATAGGCAAGATGAAAACCTCCCCTATTTTTTTCCCCTCTTAGGAAGAC
ATACTGGAAAGAAAATGTTTAGCATCTTAGTGTAGTATAGCTATTGTAAACAGTTCATGACTAGATTTTGATTG
GAAATCTATACTGACCAAGGATTAATCTTAAGGATTGTATAATTCATTAAAGCTGTGGTCTTTCCATGTGGAGAC
TGATAGAAAATAATTTTGTCCCAAGTCTTATTTGCTGACTTTTTCTGTCATGAGTGAGATTGTTGAACAACTGA
ATATATGGGCTATAGCAAGTAGCTTTACAGTACAGATCTTACAATTAAGTTTTGCTTTTGTAAAGTGTGTACCA
TTTTTTCTGTTTGGAGTAAGACAAAAATTGTTTTGACATAGGTTCCCTAGGGTACACTTGCTCTAGCATACTTTA
AAGGCCACTGTTGCAAGTCTACATTTTATGCTGAATCTGCATTCTGTCAGGCACCCGTAGAAAGACCTCAGTAC
ATGCTTTGCACTCTCCTTTGCTCCCTTTTTCCAATTTCTTATTGCATATCATTTTGTGTAATACAGAAAGCAGC
ATTTTTAAATGTCCGTGTTAAGAATTGGCCCACTGGTACCAACTCACCTCTATTTTGTGAGTTTATAGTTGAAGA
TTTTGTTTTATTTCAAAAACAAAGTACATTTTTGAAATAATGTTTCAGAATAAAATAATCTCACTTTTAAGTGAT
CCATTTTAAATTTGTAATTCAATAAAGTTTTTTTTTGTGTTAAACAT

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FIGURE 2549

MLAAALRTGDDYIAIGADEEELGSQIEEDIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPDLFA
RMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGN
RWKFC

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FIGURE 2550

CGGCGGGCGAGGGGCAGGGCAGGGCGGACCCCTGGACGCGCGGGCGCGCGCGGAAGGTAGCGCGGGGGCCGCGTTGG
CGCGCACGCGCCTGAGCGTGC GCCCGGTGGGGCCGGCCGGGACTCGCCGCTCGCACGCCCTTGGGCCGCGGGCCGG
GCGCCCGCTCTTCCTTCCGCTTGCCTGTGAGCTGAGGCGGTGTATGTGCGGCAATAACATGTCAACCCCGCTGC
CCGCCATCGTGCCCGCCGCCCGGAAGGCCACCGCTGCGGTGATTTTCCTGCATGGATTGGGAGATACTGGGCACG
GATGGGCAGAAGCCTTTGCAGGTATCAGAAGTTCACATATCAAATATATCTGCCCGCATGCGCCTGTTAGGCCTG
TTACATTAAATATGAACGTGGCTATGCCTTCATGGTTTGATATTATTGGGCTTTCACCAGATTCACAGGAGGATG
AATCTGGGATTAAACAGGCAGCAGAAAATATAAAAGCTTTGATTGATCAAGAAGTGAAGAATGGCATTCTTCTA
ACAGAATTATTTTGGGAGGGTTTTCTCAGGGAGGAGCTTTATCTTTATATACTGCCCTTACCACACAGCAGAAAC
TGGCAGGTGTCACTGCCTCAGTTGCTGGCTTCCACTTCGGGCTTCCTTTCCACAGGGTCCTATCGGTGGTGCTA
ATAGAGATATTTCTATTCTCCAGTGCCACGGGGATTGTGACCCTTTGGTTCCCTTGATGTTTGGTTCTCTTACGG
TGGAAAACTAAAAACATTGGTGAATCCAGCCAATGTGACCTTTAAACCTATGAAGGTATGATGCACAGTTCGT
GTCAACAGGAAATGATGGATGTCAAGCAATTCATTGATAAACTCCTACCTCCAATTGATTGACGTCCTAAGAGG
CCTTGTGTAGAAGTACACCAGCATCATTGTAGTAGAGTGTAACCTTTTCCCATGCCAGTCTTCAAATTTCTAA
TGTTTTGCAGTGTTAAATGTTTTGCAAATACATGCCAATAACACAGATCAAATAATATCTCCTCATGAGAAATT
TATGATCTTTTAAAGTTTCTATACATGTATTCTTATAAGACGACCCAGGATCTACTATATTAGAATAGATGAAGCA
GGTAGCTTCTTTTTTCTCAAATGTAATTCAGCAAAATAACAGTACTGCCACCAGATTTTTTATTACATCATT
GAAATTAGCAGTATGCTTAATGAAATTTGTTTCAGGTATAAATGAGCAGTTAAGATATAAAACAATTTATGCATG
CTGTGACTTAGTCTATGGATTTATTCCAAATTGCTTAGTCACCATGCAGTGTCTGTATTTTTATATATGTGTTT
ATATATACATAATGATTATAATACATAATAAGAATGAGGTGGTATTACATTATTCCTAATAATAGGGATAATGCT
GTTTATTGTCAAGAAAAAGTAAATCGTTCTCTTCAATTAATGGCCCTTTTATTTTGGGACCAGGCTTTTTATTT
CCCTGATATTATTTCTATTTAATACTCTTTTCTCTCAAGAAAAAAAAAAAAAGTTTGTTTTTTCTTTATTGTCCTT
CATAGCAGGCCAAGTATTGCCTCTCTGCAATAGACAGCTACTGTCAATACATGCTGTAATTTGACATTCTGGGTC
ACAGATATAAGGTATTTAAATCTATTTATGCTTTATAGAGAAACCAGACATTAAAACTTCATGCACTACTTATT
TCGAATTACTGTACCTTATCCAAATTTACACCTAGCTATTAGGATCTTCAACCCAGGTAACAGGAATAATCTGT
GGTTTCATTTTTCTGTAAACAACGAAAGAATAATTAGATCATATTCTAGTATGTTCTGAAATATCTTTAAGACT
GATCTTAAAACTAACTTCTAAGATGATTTTCATCTTCTCATAGTATAGAGTTTACTTTGTACACGTTTGAAACCA
ACTACTGTAGAAGATGAGGAATCTATTGTAATTTTTTGCTTTATTTTTCATCTGCCAGTGGACTTATTTGAAATTT
TCACTTTAGTCAAATATTTTTTGTATTAGTTTTTGATGCAGACATAAAAATAGCAATCATTTTAAATGTCAA
ATTTCCAGATTACTGGTAAAAATTTTGAAGCAAACTTATGGGTAATAAAGGCTAGTCAGAACCCCTATACCAT
AAAGTGTAGTTACCATACAGATTAATATGTAGCAAAAATGTATGCTTGATATTTCTCAACTGTGTTAATTTTTCT
GCTGTATTCCAGCTGACCAAAACAATATTAAGAATGCATCTTTATAAATGGGTGCTAATTGATAATGGAAATAAT
TTAGTAATGGACTATACAGGATGTTAATAATGAAGCCATATGTTTATGTCTGGATTTAAAAATTTTAAACAATCA
TTACTATGTCATTTTTCTTTACCTTGAAGAACATAAACTGTATTTCACTTCTACAAATCAGCAAGATATTATT
TATGGCAAGAAATATTCATTGAAATATTGTCTGTAACATGGGAAAGTGAAATGTTTTTCATGGTTTCTATCA
ATGTGAAATAAAATTTAATTCTGAAAAA

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FIGURE 2551

MCGNNMSTPLPAIVPAARKATAAVIFLHGLGDTGHGWAEAFAGIRSSHIKYICPHAPVRPVTLMNVAMPSWFDI
IGLSPDSQEDESIGIKQAAENIKALIDQEVKNGIPSNRIILGGFSQGGALSLYTALTTQQKLAGVTALSCWLPLRA
SFPQGPIGGANRDISILQCHGDCDPLVPLMFGSLTVEKLKTLVNPANVTFKTYEGMMHSSCQQEMMDVKQFIDKL
LPPID

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FIGURE 2552

CTTCTTTTTGAGGAAGACGCGGTCGTAAGGGCTGAGGATTTTTGGTCCGCACGCTCCTGCTCCTGACTCACCGC
TGTTGCTCTCGCCGAGGAACAAGTCGGTCAGGAAGCCCGCGCGCAACAGCCATGGCTTTTAAGGATACCGGAAA
AACACCCGTGGAGCCGGAGGTGGCAATTCACCGAATTCGAATCACCTAACAAGCCGCAACGTAAAATCCTTGGA
AAAGGTGTGTGCTGACTTGATAAGAGGCGCAAAAGAAAAGAATCTCAAAGTGAAAGGACCAGTTCGAATGCCTAC
CAAGACTTTGAGAATCACTACAAGAAAACTCCTTGTGGTGAAGGTTCTAAGACGTGGGATCGTTTCCAGATGAG
AATTCACAAGCGACTCATTGACTTGCACAGTCCTTCTGAGATTGTTAAGCAGATTACTTCCATCAGTATTGAGCC
AGGAGTTGAGGTGGAAGTCACCATTGCAGATGCTTAAGCTCAACTATTTTAATAAATTGATGACCAGTTGTAAAA
AAAAAAAAAAAAA

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FIGURE 2553

MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVGPFVRMPTKTLRITTRKTPCGEGSK
TWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA

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FIGURE 2554

ATGATGAAGGGAACGTCATCATTGGAAAGCATTGCAATAAGACGTACACGTTATGCCACCACTGTGGCTCTAAG
GCCTACCACCTTCAGAAGTCGACCTATGGCAAATGTGGCTACACTGCCAAGCGCAAGAGAAAGTATAACTGGAGT
ACCAAGGCTAAAAGACGAAATACCACCAGAACTGGTCAAATGAGGCACCTAAAAATTGTATACCATAGATTCAGG
CATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGTTGCAGCATCCAGTTCATCTTAA

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FIGURE 2555

MMKGTSSFGKHCKNTYTLCHHCGSKAYHLQKSTYGKCGYTAKRKRKYNWSTKAKRRNTTRTGQMRHLKIVYHRFR
HGFREGTTPKPKRAAVAASSSS

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FIGURE 2556

CCCTGGTGTGATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTAC
CTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTT
TTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCT
TTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAA
GGCAGCCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAA
ACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCT
GTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGATGATGAAGATGATGATGATGATGATTTTAATGAT
GAGGAAGCTGAAGAAAAAGTGCCAGTGAAGCAATCTATACAAGATACTCCAGCCAAAAATGCACAAAAGTCAAAT
CAGAATGGAAAAGACTCAAACCATCAACACCAAGATCAAAAGGACAAGAATCTTTCAAAAACAGGAAAAAAC
TCCTAAAACACCAAAAGGACCTAGTTCTGTAAAAGACAT

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FIGURE 2557

GATTCCATCCTGTGTGGCTGTTCTCTGGAGCAGCATTTCGTTTATCTTCGTCCGCCCTTCTCTCCTACCTAAGTGCG
TGCTGCCTCCCGATGGAAGATCTGATGGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGT
GAACTAAAGGCTGACAAAGATTGTCACTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACG
GTCAGTTTAGGGGCTGGTGCAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCA
ATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCA
CCAGTAGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAA
GATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGA
GGTAGTAGCAAGCTTCCACAGAAAAAGTAAAACCTTGCTGCTGATGAAGATGATGATGATGATGAAGAAGATGAT
GATGATGAAGATGATGATGATGATTTTAATGATGAGGAAGCTGAAGAAAAGTGCCAGTGAAGCAATCTATACAA
GATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAAACCATCAACACCAAGATCAAAA
GGACAAGAATCTTTCAAAAAACAGGAAAAAACTCCTAAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAA
AGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAA
GAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAG
TTTAAACAATTTGTTAAAAATTTCCGTCTTATTTCAATTTCTGTAACAGTTGATATCTGGCTGTCCTTTTTATAA
TGCAGAGTGAGAACTTTCCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAA
ATGCCTGTTTAGTTTTTAAAGATGGAAGTCCACCCCTTGCTTGGTTTTAAGTATGTATGGAATGTTATGATAGGA
CACAGTAGTAGCGGTGGTCAGACATGGAATCGTGGGGAGACAAAAATATACCTGTGAAATAAACTCAGTATTT
TAAT

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FIGURE 2558

GGAGCAGCATTTCGTTTATCTTCGTCCGCCTTCTCTCCTACCTAAGTGCGTGCTGCCTCCCGATGGAAGATCTGAT
GGACGTGGACATGAGCTCCCTGAGGCCCCAGAACTATCTTTTTGGTTGTGAACTAAAGGCTGACAAAGATTGTCA
CTTTAAGGTGGATAATGATGAAAATGAGCGCCAGTTGTCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGA
TGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACGAAGGCAGCCCAATTAAAGTAACACTGGCAACTTTGAA
AATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTTGAAACAACACCACCAGTAGTCTTAAGGTTGAAGTGTGG
TTCAGGGCCAGTGACATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGA
GGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGATCTGCCCTCGGAGGTAGTAGCAAGCTTCCACAGAAAAA
AGTAAACTTGCTGCTGATGAAGATGATGATGATGATGAAGAAGATGATGATGATGAAGATGATGATGATGATTT
TAATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCTTTCAAAAAACAGGAAAAAACTC
CTAAACACCAAAAGGACCTAGTTCTGTAAAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTT
CTCTTCCCAAAGTGGAAGCCAAGTTCATCAATTACGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATT
AAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAATTTCCGTCTTATTT
CATTTCTGTAACAGTTGATATCTGGCTGTCTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTGATAA
ATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTTAAAGATGGAACCTCACCC
TTTGCTTG

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FIGURE 2559

GCTCCTTCTAGGATCTCCGCCTGGTTCGGCCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGATC
CAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTGCC
CACATCAGCTCCTCGAGCTTCTCCTGAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGG
GCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGCTCCTGGAGGTGGAC
CCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACA
GACAAGGTACGGTTTCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATG
GCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAG
GAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGAT
GAGATCAATAAGCATAACAGAGATGGAGAATGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTACGAAAAGGAG
ATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACATG
GACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCAGGAGCGGGCTGAGGCTGAGAGCATG
TACCAGATCAAGTATGAGGAGCTGCAGAGTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAG
ATCTCTGAGATGAACTGGAACATCAGCCAGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTG
GAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTG
GAGGCTGCCCTGCAGCGGGCCAAGCAGGACATGGCACGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAAG
CTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCAAAGAGAGCCGGCTGAAGTCTGGGATG
CAGAACATGAGTATTTCATACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACA
AGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCTCTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGT
TCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTGATGGGAAGCTGGTGTCCGAGTCTCTGACATCCTG
CCCAAGTGAACAGCTGTGGCAGCCCCCTCCCAGCTACCCCTCCTGCGCTGCCCCAGAGCCTGAGAAGGAGGCCAC
TATTCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCCACCTGGGGAGTTTAC
TACCTGGGGACCCCCCTTGCCCATGCCTCCAGCTACAAAACAATTCAATTGCTTTTTTTTTTGGTCCAAAATAAAAC
CTCAGCTAGCTCTGCCAA

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FIGURE 2560

GAGTGGGCAGCAGCAGCTTTCGGGGTGGCCTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCG
CAGTCATGGTCAACCAGAGCCTACTGAGCCCCCTTGTCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCC
AGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCCTGGAGCAGC
AGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGT
TCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGC
TTGGCAACATGCAGAGGCTGGTGGAGTCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATG
CAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGCTTTGGCT
CTGGCGCAGGCTCCAGCTCCCTCAGCCGCACCAGTTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACATGTG
ATGGGAAGCTGGTGTCCGAGTCCTCTGACATCCTGCCCCAAGTGAACAGCTG

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FIGURE 2561

CTGGGAGGCGGCTATAGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAGCCTACTGAGC
CCCCTTGTCCTGGAGGTGGACCCCAACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCACAGACAAGGTACGGTTCTGGAGCAGCAGAACAAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGATGGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGAGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCATAACAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT
GTGGATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAGATCAACTTCCTC
AGGCAGCTGTACGAAAAGGAGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCATTGCTGAGGTCAAGGCAC
AGTACGAGGATATTGCCAACCAAAGACGGGCTGAGGCTGAGAGCATGTACCAGATCAAGTATGAGGAGCTGCAGA
GTCTGGCTGGGAAGCACGGGGATGACCTGTGGCGCACAAAGACTGAGATCTCTGAGATGAACTGGAACATCAGCC
AGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATTGCAGATGCCGAGCAGC
GTGGAGAGCTGGCCATTAAGGATGCCAACGCCAAGTTGTCCGAGCTGGAGGCTGCCCTGCAGCGGGCCAAGCAGG
ACATGGCACGGCAGCTGCGTGAG

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FIGURE 2562

TCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCACGTG
CAGCCTATTCGCTGCACTAACTGTGCCCAGTGCATGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCGAAAC
ATAGTGGAGGCCGCAGCAGTCAGGGACATTTCTGAAGCGAGCATCTTTGATGCCTATTTGCTTCCCAAGCTGTAT
GTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCTGCAAG
GACCGAACACCCCCACCCAATTTAGACCTGCGGGTGCTGCCCCACGTCCCCCACCAAAGCCCATGTAAGGAGCT
GAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATTAAATGGAAACTGTACTTA

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FIGURE 2563

AGGCGGGGGCGGTGCCATGACGCGCCTCGGGGGCGGTCTCGGGCGCGCACCGCTCTCTTACACTCGGGCCTCAG
AAGTCCGTGCCAGTGACCGGAGGCGGGCGGGCGAGCGGTTCCCTTGTTGGGCTAGAAGAATCCTGCAAAAATGTCT
CTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAGTAATTCAGGCTCAAACCTGCTTTTTCTGCAAACCCTGCC
AATCCAGCAATTTTGTGAGAAGCTTCTGCTCCTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAG
CTCTCTCAATACATGGGGCTGAGTTTAAATGAAGAAGAAATACGTGCAAAATGTGGCCGTGGTTTTCTGGTGCACCA
CTTCAGGGGCGAGTTGGTAGCAAGACCTTCCAGTATAAACTATATGGTGGCTCCTGTAACCTGGTAATGATGTTGGA
ATTCGTAGAGCAGAAATTAAGCAAGGGATTTCGTGAAGTCATTTTGTGTAAGGATCAAGATGGAAAAATTGGACTC
AGGCTTAAATCAATAGATAATGGTATATTTGTTTCAGCTAGTCCAGGCTAATTCTCCAGCCTCATTGGTTGGTCTG
AGATTTGGGGACCAAGTACTTCAGATCAATGGTGAACCTGTGCAGGATGGAGCTCTGATAAAGCGCACAAAGGTG
CTCAAACAGGCTTTTGGAGAGAAGATTACCATGACCATTTCGTGACAGGCCCTTTGAACGGACGATTACCATGCAT
AAGGATAGCACTGGACATGTTGGTTTTATCTTTAAAAATGGAAAAATAACATCCATAGTGAAAGATAGCTCTGCA
GCCAGAAATGGTCTTCTCACGGAACATAACATCTGTGAAATCAATGGACAGAATGTCATTGGATTGAAGGACTCT
CAAATTGCAGACATACTGTCAACATCTGGGACTGTAGTTACTATTACAATCATGCCTGCTTTTATCTTTGAACAT
ATTATTAAGCGGATGGCACCAAGCATTATGAAAAGCCTAATGGACCACACCAATTCCTGAGGTTTAAAATTCACGG
CACCATGGAAATGTAGCTGAACGTCCTCCAGTTTCCTTCTTTGGCAACTTCTGTATTATGCACGTGAAGCCTTCCC
GGAGCCAGCGAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGA
TACCTTGTTTCAGATTTCAAAATAGTTGTAGCCTTATCCTGGTTTTACAGATGTGAACTTTCAAGAGATTTACTG
ACTTTCTAGAAATAGTTTCTCTACTGGAAACCTGATGCTTTTATAAGCCATTGTGATTAGGATGACTGTTACAGG
CTTAGCTTTGTGTGAAAACCAAGTCACCTTTCTCCTAGGTAATGAGTAGTGCTGTTTCATATTACTTTAGTTCTATA
GCATACTTGCATCTTTAACATGCTATCATAGTACATTTAGAATGATTGCCCTTTGATTTTTTTTTTAAATCTGTG
TGTGTGTGTGTAATGCAATTAAGAACACTGGTTTCATTCCATGTAAGCATTAAACAGTGTATGTAGGTTTCA
AGAGATTGTGATGATTCTTAAATTTTAACTACCTTCACTTAATATGCTTGAACCTGTCGCCTTAACTATGTTAAGC
ATCTAGACTAAAAGCCAAAATATAATTATTGCTGCCTTTCTAAAACCCAAAATGTAGTTCTCTATTAACCTGAA
ATGTACACTAGCCCAGAACAGTTTAATGGTACTTACTGAGCTATAGCATAGCTGCTTAGTTGTTTTTGGAGATTTT
TTAGTCAACACATAATGGAACTTCTTTCTTCTAAAAGTTGCCAGTGCCACTTTTAAGAAGTGAATCACTATATG
TGATGTAAAAGTTATTACACTAAACAGGATAAACTTTTACTCCCCTTTTGTTCATTTGTGGATTAAAGTGGTATA
ATACTTAATTTTGGCATTGTGACTCTTAAGATTATGTAACTAGCTACTTTGGGATGGTCTTAGAATATTTTTCTG
ATAACTTGTTCCTTTTCTGACTCCTCCTTGCAAACAAAATGATAGTTGACACTTTATCCTGATTTTTTCTTCT
TTTTGGTTTATGTCTATTCTAATTAAATATGTATAAATAAAGTTACATTTTAGTCTGTC

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FIGURE 2565

CAAGAGTCTAGGTAAGAGTTTGTTCCTGTTGGTGCAGGAGGGTCAAGGCCACACCCGGAAACCTAGCGAGGTAAAG
TTGCGTCTTGGTTGTAGAGACGACAACCTTCTCCGCTTCCTCGGCGATGCGCGGTCCGGGAGCGGTATGGCCAG
AAAACCTGGGAACCTGGCCAACAACATGCAGGAAGCTCAGAGTATCGATGAAATCTACAAATACGACAAGAAACAG
CAGCAAGAAATCCTGGCGGCGAACCTTGGGACTAAGGATCACCATTACTTTAAGTACTGCAAAATCTCAGCATTG
GCTCTTCTGAAGATGGTGATGCATGCCAGATCGGGAGGCAATTTGGAAGTGATGGGTCTGATGCTAGGAAAGGTG
GATGGTGAAACCATGATCATTATGGACAGTTTTGCTTTGCCTGTGGAGGGCACTGAAACCCGAGTAAATGCTCAG
GCTGCTGCATATGAATACATGGCTGCATACATAGAAAATGCAAAACAGGTTGGCCGCCTTGAAAATGCAATCGGG
TGGTATCATAGCCACCCTGGCTATGGCTGCTGGCTTTCTGGGATTGATGTTAGTACTCAGATGCTCAATCAGCAG
TTCCAGGAACCATTGTAGCAGTGGTGATTGATCCAACAAGAACAATATCCGCAGGGAAAGTGAATCTTGGCGCC
TTTAGGACATACCCAAAGGGCTACAAACCTCCTGATGAAGGACCTTCTGAGTACCAGACTATTCCACTTAATAAA
ATAGAAGATTTTGGTGTTACACTGCAACAATATTATGCCTTAGAAGTCTCATATTTCAAATCCTCTTTGGATCGC
AAATTGCTTGAGCTGTTGTGGAATAAATACTGGGTGAATACGTTGAGTTCTTCTAGCTTGCTTACTAATGCAGAC
TATACCACTGGTCAGGTCTTTGATTTGTCTGAAAAGTTAGAGCAGTCAGAAGCCCAGCTGGGACGAGGGAGTTTC
ATGTTGGGTTTAGAAACGCATGACCGAAAATCAGAAGACAACTTGCCAAAGCTACAAGAGACAGCTGTAAACT
ACCATAGAAGCTATCCATGGATTGATGTCTCAGGTTATTAAGGATAAACTGTTTAATCAAATTAACATCTCTTAA

ACAGTCTCTGAGAAGTACTTTACCTGAAAGACAGTATGAGAAAAATATTCAAGTAACACTTTAAAACAGTTACC
CAAAATCTGATTAGAAGTATAAGGTGCTCTGAAGTGTCTAAATATTAATATCCTGTAATAAAGCTCTTTAAAT
GA

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FIGURE 2566

MAASGSGMAQKTWELANNMQEAQSIDEIYKYDKKQQQEILAAANLGTKDHHYFKYCKISALALLKMVMHARSGGNL
EVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGI
DVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALE
VSYFKSSLDRLLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKL
AKATRDSCKTTIEAIGHGLMSQVIKDKLFNQINIS

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FIGURE 2567

GGCACGAGGGGGAGGCGGCGGCGAGTCGGTGAGCAGCTGGGAAGAGCAGAACCAGGGGCGGAGCACCTGCAGGCGC
GGGCGGCGGCCCCACCATGGCGATTTCGCAAGAAAAGCACCAAGAGCCCCCAGTGCTGAGCCACGAATTCGTCCT
GCAGAATCACGCGGACATCGTCTCCTGTGTGGCGATGGTCTTCCTGCTGGGGCTCATGTTTGAGATAACGGCAAA
AGCTTCTATCATTTTTGTTACTCTTCAGTACAATGTACCCTCCCAGCAACAGAAGAACAAGCTACTGAATCAGT
GTCCCTTTATTACTATGGCATCAAAGATTTGGCTACTGTTTTCTTCTACATGCTAGTGGCGATAATTATTCATGC
CGTAATTCAAGAGTATATGTTGGATAAAATTAACAGGCGAATGCACTTCTCCAAAACAAAACACAGCAAGTTTAA
TGAATCTGGTCAGCTTAGTGCGTTCTACCTTTTTGCCTGTGTTTGGGGCACATTCAATCTCATCTCTGAAAATA
CATCTCAGACCCAATCTTATGGAGGGCTTATCCCCATAACCTGATGACATTTCAAATGAAGTTTTTCTACAT
ATCACAGCTGGCTTACTGGCTTCATGCTTTTCTGAACTCTACTTCCAGAAAACCAAAAAAGAAGATATTCCTCG
TCAGCTTGTCTACATTGGTCTTTACCTCTTCCACATTGCTGGAGCTTACCTTTTGAACCTGAATCATCTAGGACT
TGTTCTTCTGGTGCTACATTATTTGTTGAATTTCTTTTCCACATTTCCCGCCTGTTTTATTTTAGCAATGAAAA
GTATCAGAAAAGGATTTTCTCTGTGGGCAGTTCTTTTTGTTTTGGGAAGACTTCTGACTTTAATTCTTTCAGTACT
GACTGTTGGTTTTTGGCCTTGCAAGAGCAGAAAATCAGAAGCTGGATTTTCACTACTGGAACTTCAATGTGTTAGC
TGTTAGAATCGCTGTTCTGGCATCCATTTGCGTTACTCAGGCATTTATGATGTGGAAGTTCATTAATTTTCAGCT
TCGAAGGTGGAGGGAACATTCTGCTTTTTCAGGCACCAGCTGTGAAGAAGAAACCAACAGTAACATAAGGCAGATC
TTCTAAAAAAGGAACAGAAAATGGTGTGAATGGAACATTAACCTTCAAATGTAGCAGACTCTCCCGGAATAAAAA
AGAGAAAATCTTCATAATGAATTATAAACTAATTGATTAATGTCCCCAAAGAAATCTGCTTCTACTATATCTTTC
AGCATTAGAGATTTTTCTGTTCTTGAAAATACAGTCTGTGCTCTTTGATTTTTGCTATTGTACGGTTTCATGCAT
TTTTTTAAAGGGCATTGTAGGGGAGGATTATTGCTATGAATGAAAAAATATTTTAGCTTAGACTAAGCTACCTG
CCTTCAAAATAGTTTAGGGACCACCACCATATTTTATTTTGTTTTTATTTTTGAACATTTTTCTAATGATTTGGA
GAGAAAATATTTTACAAAAATTCACATATCAGTGATAACAATTTCTTGCTGTCACCAATTTTTTATAATAGCAGA
GTGGCCTGTTCTAAGAAGGCCATATTTTTTAAGTTATCTTTCAGGGTAACATGGAAATACTATAAAGTTGGATGT
CAAACCTTAAATATGTTTTCAGTGTTCTCTAATTTTTTGAATTTTTGTAGACTTTACACCTGGAAAAAAGATTT
GTAATAATCACCGGAACAATTGTGTGCTTTATTTTATAGGTAGTGTTATTAGTATTACATCCCCATTTTAAAAAC
AAAAACATAATAATGGTTACAACACGTGGAGTTTTACTAACATACATATTAAATCAAAGTATATTCTTAAAAGTA
CTTGTAAGTAAAAATCTTCTTGTCATTTTCAATACTTGTAACCTGGAAATCAGAAAATATTTACTATGAACAG
GAAAATCTGACATATAGCCCTTTTGTATGTTTATTAATAATGATTCTTAATGGGGCTCATAATAAGTTTAATA
TGCACAGCATCTTAGAAAAGTTTAACTGCAAAACACTTTTAAAAACATAATGCCTACTTGATTTATATCTATAAAA
AGACTGACAGGTAATTATATTTGGAAAACATTTAATGCACTAACTTTAAAGAAATTGAAAATTCAGGTGGATAAA
TAGTCTTACAAAAGACAATGTGCTTTATGTTATACCTATAGCTTTGGTCCCATCTTTAATTGAGAAACATTTATC
TGTATAAAACATATTTTTGGATAAATATATATATATATATTTGTATCGCTACAGAAAAGGCTCTAAAAAGCATTTG
AGGAAAATATTTGGTTCCCTTTTCTATAATCATCCTTTAAGATTCTTATAGCTACATTTGGTTTATTCATCATAT
TTACAGTATATATATTGTTCTTTTCAGTGTTTACATCTTGTTCCCCATTTCTCACTTGTTGTCACCAGCTGTTTGT
GCCATTTTATAGTGTAAGTTGTCAGACCTATTAGATCTGCAGTTTAAAGTTGCCATGCTGCTAGGAAATTGTCCTT
TTTCTTTCTAGCTGTTAACCTACTTCTGGAAAAAGTAGTAGCTCTCTGTAGCATTATGGAGTTTCAGTGGAACC
AAATTTTTGCCATTAAAAACTGGCATTATACTGAACATATACATTGAGAAATCAATCAAAATAAAAAATTTTTACTT
TCACAAAAA

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FIGURE 2568

MAIRKKSTKSPVLSHEFVLQNHADIVSCVAMVFLGLMFEITAKASIIFVTLQYNVTLPATEEQATESVSLYYY
GIKDLATVFFYMLVAIIHAVIQEYMLDKINRRMHFSKTKHSKFNESGQLSAFYLFACVWGTFILISENYISDPT
ILWRAYPHNLMTFQMKFFYISQLAYWLHAFPELYFQKTKKEDIPRQLVYIGLYLFHIAGAYLLNLNHLGLVLLVL
HYFVEFLFHISRLFYFSNEKYQKGFSLWAVLFVLGRLLTLILSVLTVGFGLARAENQKLDFTGNFNVLA VRIAV
LASICVTQAFMMWKFINFQLRRWREHSAFQAPAVKKKPTVTKGRSSKKGTENGVNGLTISNVADSPRNKKEKSS

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FIGURE 2569

CCTCTTTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCTGCTGTGCCAGAAACCCCTT
AAGAAAAAGCGAAGGAATTTGCGAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAAGGAATATAGGCAGATGTACAGAACTGAA
ATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTTCATC
AGAATCAGAGGTATCAATGGAGTGAGCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATTTGATTCATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAAATTCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ATTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGAAAAAAA

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FIGURE 2570

MEGVEEKKKEVPAVPETLKKKRRNFAELKIKRLRKKFAQMLRKARRKLIYEKAKHYHKEYRQMYRTEIRMARMA
RKAGNFYVPAEPKLAFVIRIRGINGVSPKVRKVLQLLRRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYGKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFKEANNFLWPFKLSSPRGGMKKKT
HFVEGGDAGNREDQINRLIRRMN

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FIGURE 2571

CTCGCGCCAGCAGTTTTTTGGCTTTACCCCCCATCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG
AACACTGCTCGACATGGAAACCAGTGTGATTGAAGGTGGATTAAATATCACTCTCACCATCCGACTACTTATGCA
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACC
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCACTTTTGCTGGACCTGCTAATGCCGTCTTCAAAGG
CTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAGTAGCACAGCTGCCAGTAGACC
CCCAGTCACCCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGTTGCAAGATCAA
GGAAATACGAGAGAGTACAGGGGCTCAGGTCTAGATGGCAGGGGATATGCTACCCAACCTCAACTGAGCAGGCCAT
CACTATTGCTGGCATCCCACAATCCATCATTGAGTGTGTCAAACAGATCTGTGTGGTCATGTTGGAGTCCCCCCC
GAAGGGCGTGACCATCCCGTACCAGCTCAAGCCTTCCAGCTCTCCGGTCATCTTTGCAGGCGGTCAGGCCTATAC
CCTTCAAGGACAGTTTGCCATTCCACAGCCAGATTTGACCATGCTGCACCAGTTGGCAATGCAACAGTCTCATT
TCCCATGACGCATGGCAACACTGGATTCACTGTCAGGTTTGGATACATCTGCTCAGACTACTTCTCATGAACCTTAC
CATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATAAATGAGATCCGTCAGATGTCTGG
GGCACAGATCAAAATTGCGAAGCCAGTGGGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAG
CATTAGCCTGGCTCAATATCTAATCAATGTCAGGCTTTCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAA
TGCAGATTTATCCACAATCCCTTTCTGCTGTTTACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAG
CGATTTCAAGTTTTTAAATAGTTTGTAAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTACTTA
AAGTGTTTTAATTCCTTT

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FIGURE 2572

CCCGGCCGGCCGCCCATAGCCAGCCGTCCGTACCTCTTCACCGCCCCCTCAGACCGCCCCAAGGTCCCCCGCC
GCCGCTCCAGCGCCGCCGCTGCAGCCGCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCG
CCAGGACTACAACCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTA
CCTGTCCATGTCTTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCT
CATGAGGAGAGGGAAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGAT
ATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAAT
GTGAATCAGTCACTACTGGAACGTACAAACTGGCCACTGACAAAAATGACCCCCATTTGTGTGACTTCATTGAG
ACACATTACCTGAATGAGCAGGTGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCAGCAAGATGGGA
GCGCCCGAATCTGGCTCGGCAGAAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGTC
TCAGGCTAATTTCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGCGTGCACGTTAGGGTTTTCTT
TACCTTTTCTATAAGTTGTACCAAAACATCCACTTAAGTTCTTTGATTGTACCATTCTTCAAATAAAGAAATT
TGGTACCAAAATAATTAATAAATAAAAAATTAAAAAAA

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FIGURE 2573

MKLQNQRGGRIFLQDIKKPCDDWESGLNAMECALYLEKNVNQSLLELYKLATDKNDPHLCDFIETHYLNEQVKA
IKELSDHVTNLRKMGAPESGSAEYLFDKHTLGDSDNES

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FIGURE 2574

CCGCCGCTGCAGCCGCCTCTCTTTAGTCGCCGCCATGGCGACCCCGTCCACCTCGCAGGAGCGCCAGGACTACAA
CCAGGACTCAGAGGCCGCCATCAACCGCCACATCAACCTGGAGCTCTGCGCCTCCTACTTTTACCTGTCCATGTC
TTATACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTTCTTTACCAATCTCATGAGGAGAGG
GAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCA
GACTGTGATGACTGGGAGAGCGGGCTGAATGCGATGGAGTGTGCATTATATTTGGAAAAAATGTGAATCAGTCA
CTACTGGAAGTGTACAACTGGCCACTGACATGAAAGCCATCAAAGAATTGAGTGACCACGTGACCAACTTGCGC
AAGATGGGAGCGCCCGAATCTGGCTCGGCAGAATATCTCTTCGACAAGCACACCCTGGGAGACAGTGATAATGAA
AGCTAAGTCTCAGGCTAATTTCCCATAGCCGTGGGGTGCCTTCCTTGGTCACCAAGGCAGTGCCTGCACGTTAG
GGTTTCCTTTACCTTTTCTATAAGTTGTACC

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FIGURE 2575

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCCGCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAA
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT
TTGAAAACAACACAGTTTTCTTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAACTCAG
ACTGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACATAACAAGA
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA
GAATTAAAAAATTCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT
TTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

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FIGURE 2576

MATVQQLGRWRLVDSKGFDEYMKELGVGIALRKMAMAKPDCIITCDGKNLTIKTESTLKTTQFSTLGEKFEE
TTADGRKTQTVCNFTD GALVQH QEWDGKESTITRKLKDGKLVVECMNNVTCTRIYEKVE

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FIGURE 2577

GCTACCTACAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACTTAAAGGGAACTTTCACAATGTCC
GGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTTAGGTGGC
ACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGTATCTACATCATAAATCTGAAG
AGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCTGCTGATGTCAGTGTTATA
TCATCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCTGC
TTCACCTCTGGAACCTTTCACTAACCAGATCCAGGCAGCCTTCCAGGAGCCACGACTTCTTGTTGGTTACTGACCCC
AGGGCTGACCACCAGCCTTTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACACAGATTCT
CCTCTGCGCTATGTGCACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATG
CTGGCTTGGGAAGTTCTGTGCATGCGTGGCACCATTTCCCGTGAACACCCGTGGGAGGTCATGCCTGATTTCTGC
TTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGCCTGCTGCTGAAAAGGCTGTGACCAAGGAGGAATTT
CAGGGTGAAAGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTG
CAGGTGCCCTCTGTGCCATTTCAGCAGTTCCCTACTGAAGACTGCAGCGCTCAGCCTGCCACGGAAGACTGGTCT
GCAGCTCCCACTGCCCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCAATAGGCT
CTTAAGCAATATGGAAAAATGGTGGATGGAAAATAAACATCAGTTTCT

2799/6881
FIGURE 2578

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGCFTPGTFTNQIQAAFQEPRLLVVTDPRADHQPFTEASYVNLPTIALCNT
DSPLRYVHIAIPCNNKGAHSVGLMWWMLAWEVLCMRGTISREHPWEVMPDFCFYRDPEEIEKEEQPAAEKAVTKE
EFQGERTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDCSAQPATEDWSAAPTQAQATEWVGATTEWS

2800/6881
FIGURE 2579

TGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCCGTCTCAAGAG
AAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAG
AACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGAGTGACCGAGGCAGTG
GCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGAAATACC
ATACTGTGAATGGCCACAACCTGTGAAGTTACAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCC
AAAGAGGTGCAAGTGGTCTCTGGAACTTTGGTGGTGGTGGTGGAGGTGGTTTCAGTGGGAACGACAACCTTTGGTC
ATGGAGGAACTTCAGTGGTCATGGTGGCTTTGGTGGCAGCCATGGTGGTGGTGGATATGGTGGCAATGGGGATG
GCTATAATGGATTTGGTAATGATGGAAGCAATTTTGGAGGTGGTGGAGCTACAAGGATTTTGGCAATTACAACA
ATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCCCATGGTGGTGGAG
GCCAGTACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCA
GAAGATTTTTAAATTAGGAAACAAAGCTCAGCAGGAGAGGAGAGCCAGAGAAGTAACAGGGAAGCTACAGGTTACAA
CAGATTTGTGAACCTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATA
CTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTC
TGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCATGCTGTTGATTGCTAA
ATGTAATAGTCTGATCGTGACACTGAATAAATGTCTTTTTTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAA
GCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTT
ATATACAACCTGCTTGGGTGAAGAAGCCATTGTCTTCGGAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGT
GACCTGAAGTTCACCATTAAAAGGGATTATCCAAGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGT
ACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTTATAGATGGGAATGAAGCTTGTGTATCA
TCCATTATCGTATGTAATCAATAAACGATTTAATTCTCTTGAA